FIG.1

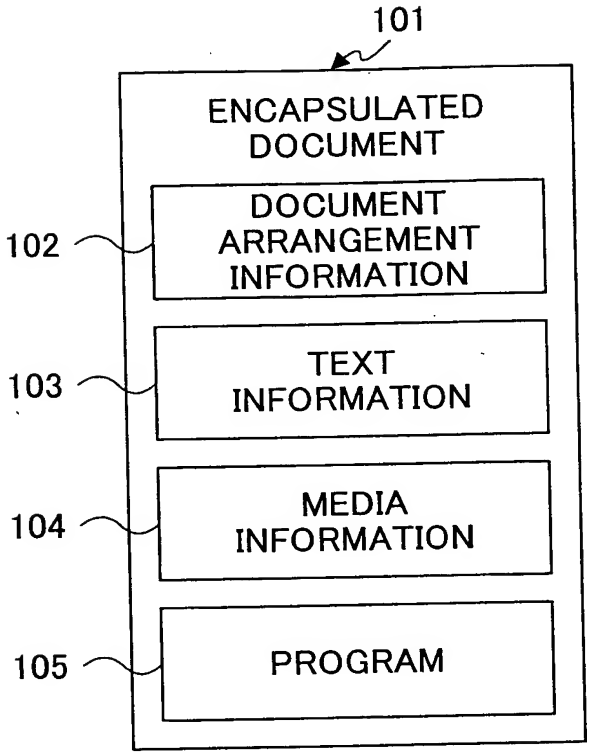

101
ENCAPSULATED DOCUMENT
102
DOCUMENT ARRANGEMENT INFORMATION
103
TEXT INFORMATION
104
MEDIA INFORMATION
105
PROGRAM

FIG.2

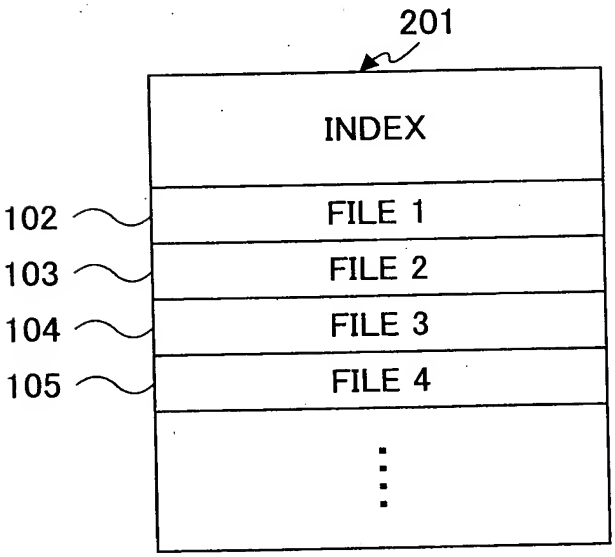

201
INDEX
102
FILE 1
103
FILE 2
104
FILE 3
105
FILE 4

FIG.3

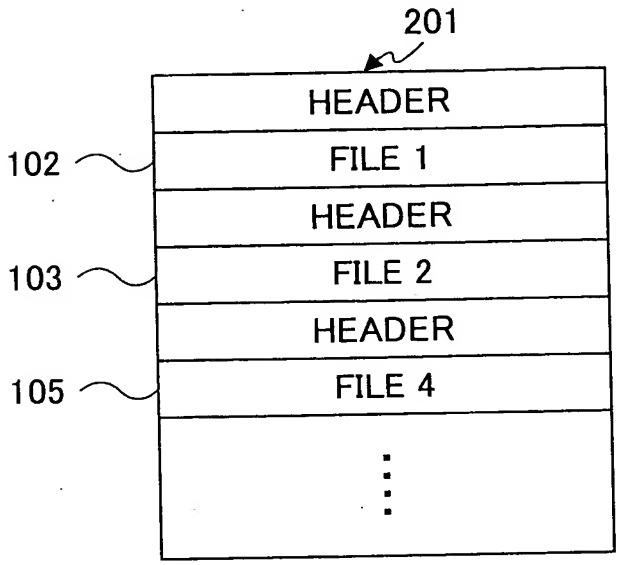

201
HEADER
102
FILE 1
HEADER
103
FILE 2
HEADER
105
FILE 4

FIG.4

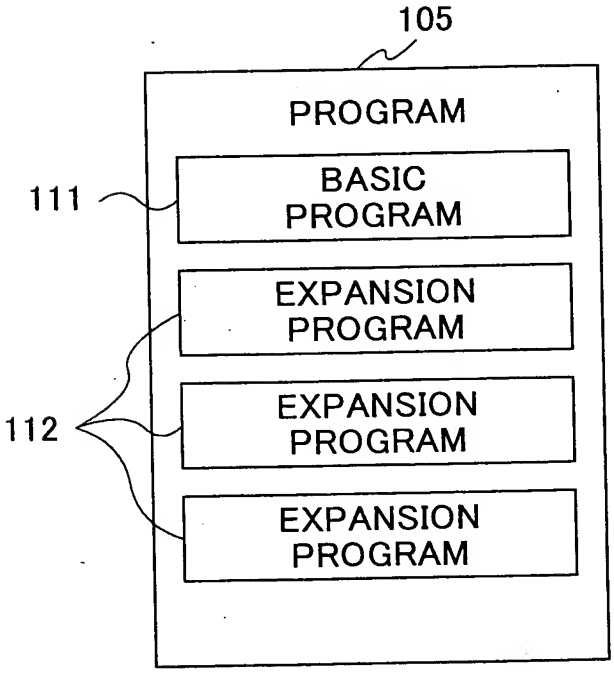

105
PROGRAM
111
BASIC PROGRAM
EXPANSION PROGRAM
112
EXPANSION PROGRAM
EXPANSION PROGRAM

FIG.5

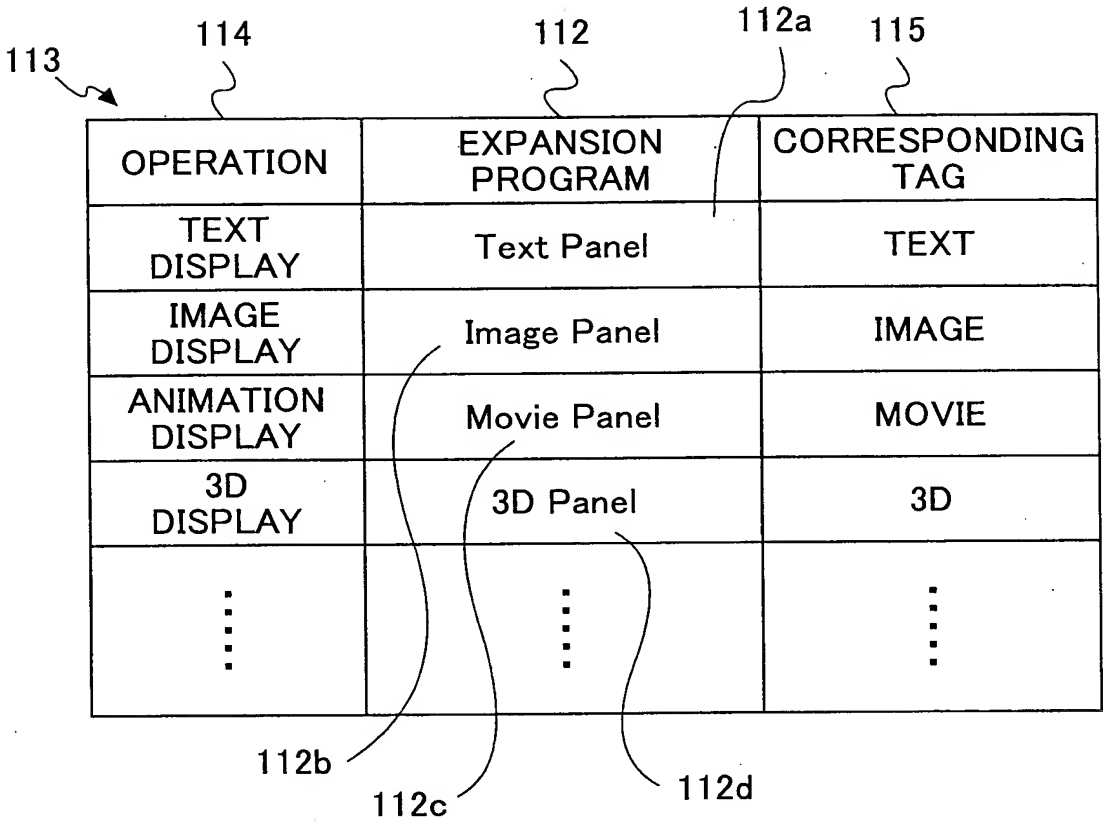

113
114
112
112a
115
OPERATION
EXPANSION PROGRAM
CORRESPONDING TAG
TEXT DISPLAY
Text Panel
TEXT
IMAGE DISPLAY
Image Panel
IMAGE
ANIMATION DISPLAY
Movie Panel
MOVIE
3D DISPLAY
3D Panel
3D
112b
112c
112d

FIG.6

<DOCUMENT>

TAG

<TEXT> MINUTES OF MEETING <TEXT/>

ELEMENT CONTENTS

<TEXT FILE= "BODY, TEXT"/>

ATTRIBUTE

<IMAGE FILE= "IMAGE, JPG" X="100" Y="10"
WIDTH= "100" HIGH= "100"/>

</DOCUMENT>

FIG.7

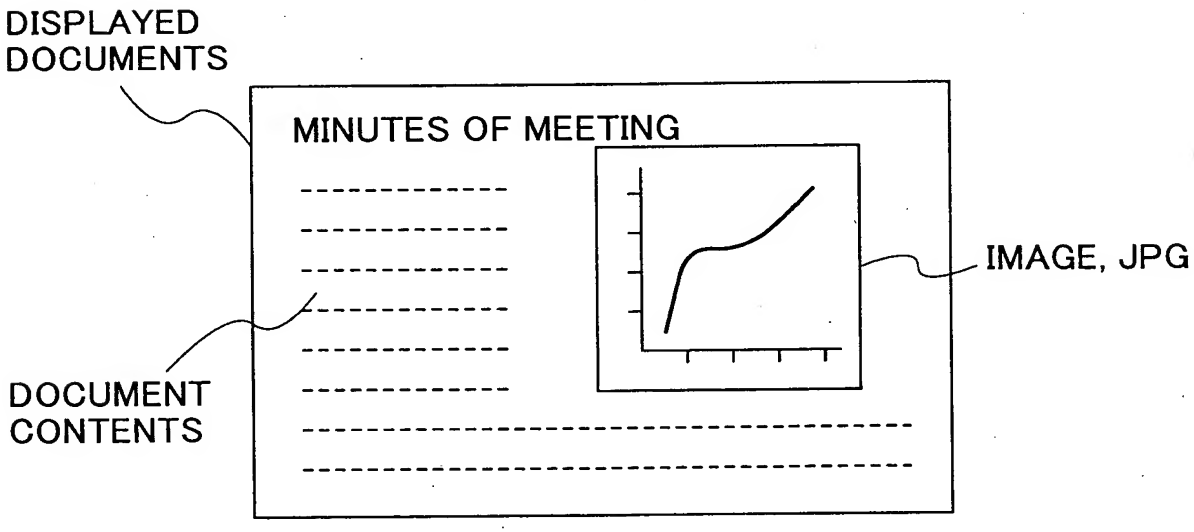


FIG.8

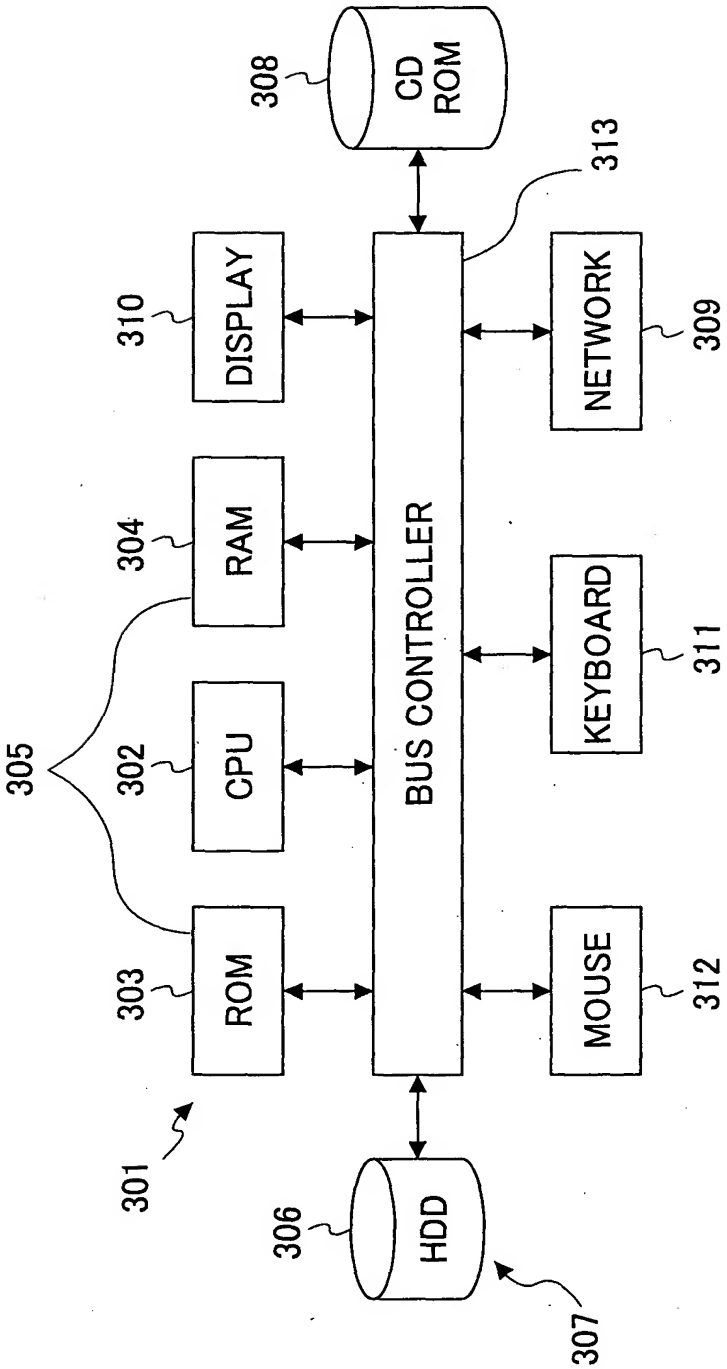

308
CD ROM
313
310
DISPLAY
NETWORK
309
304
RAM
BUS CONTROLLER
KEYBOARD
311
305
302
CPU
303
ROM
MOUSE
312
301
306
HDD
307

FIG.9

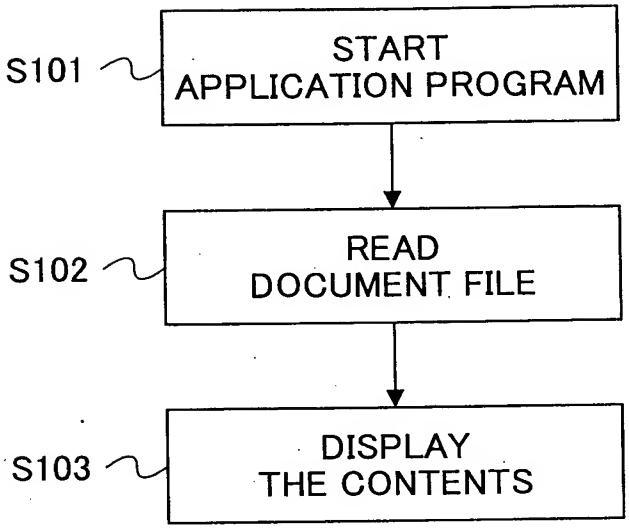

S101
START APPLICATION PROGRAM
S102
READ DOCUMENT FILE
S103
DISPLAY THE CONTENTS

FIG.10

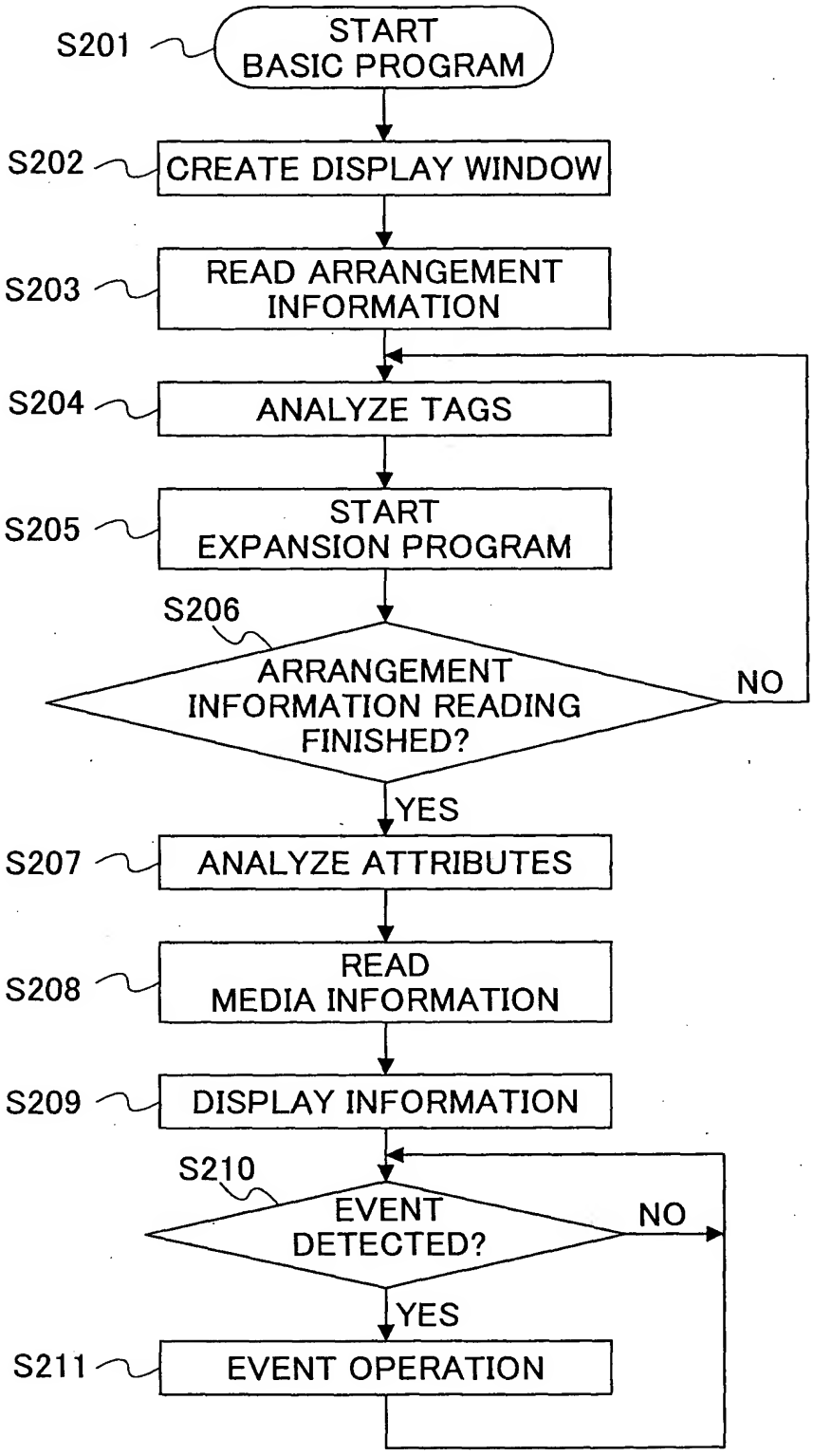

S201
START BASIC PROGRAM
S202
CREATE DISPLAY WINDOW
S203
READ ARRANGEMENT INFORMATION
S204
ANALYZE TAGS
S205
START EXPANSION PROGRAM
S206
ARRANGEMENT INFORMATION READING FINISHED?
NO
YES
S207
ANALYZE ATTRIBUTES
S208
READ MEDIA INFORMATION
S209
DISPLAY INFORMATION
S210
EVENT DETECTED?
NO
YES
S211
EVENT OPERATION

FIG.11

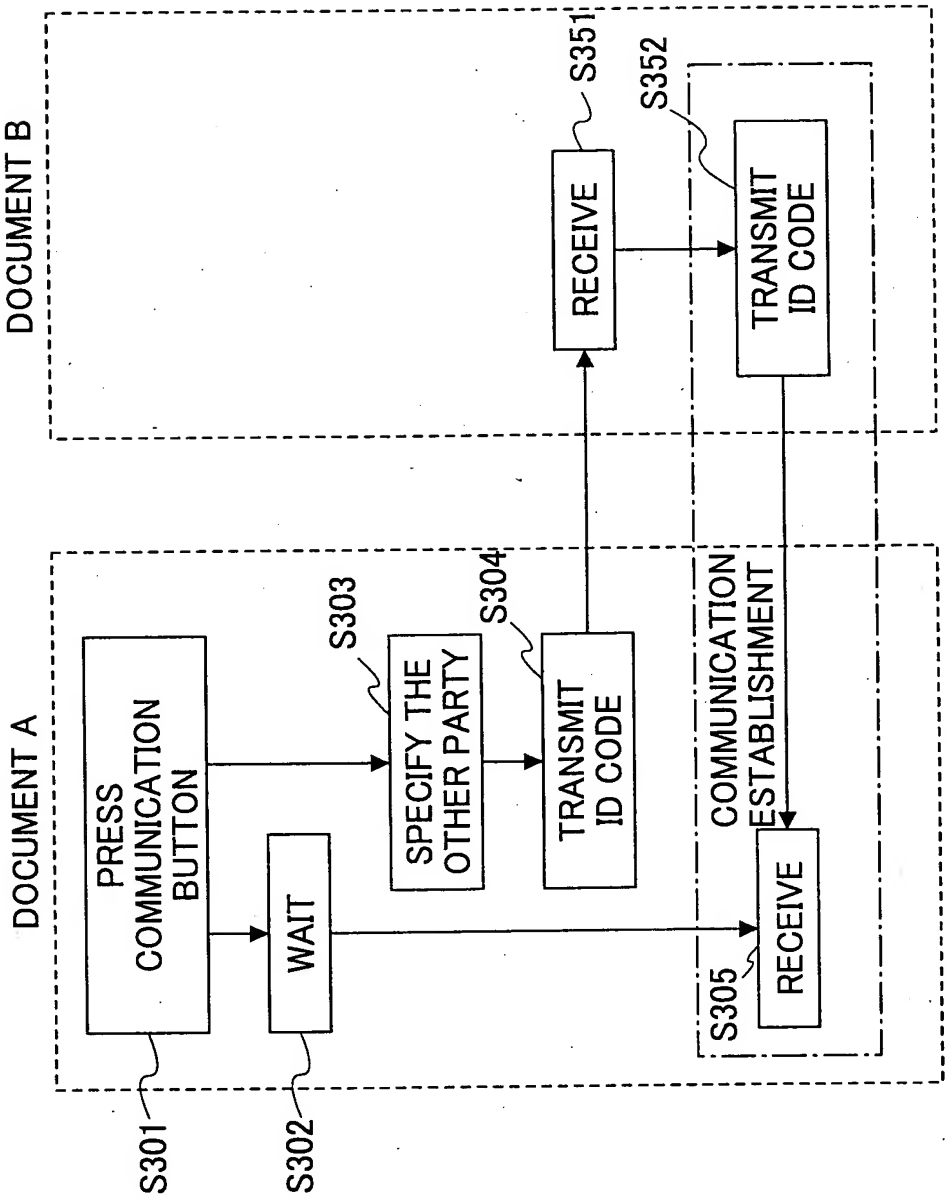

DOCUMENT B
DOCUMENT A
COMMUNICATION ESTABLISHMENT
PRESS COMMUNICATION BUTTON
WAIT
SPECIFY THE OTHER PARTY
TRANSMIT ID CODE
RECEIVE
TRANSMIT ID CODE
RECEIVE
S301
S302
S303
S304
S305
S351
S352

FIG.12

401

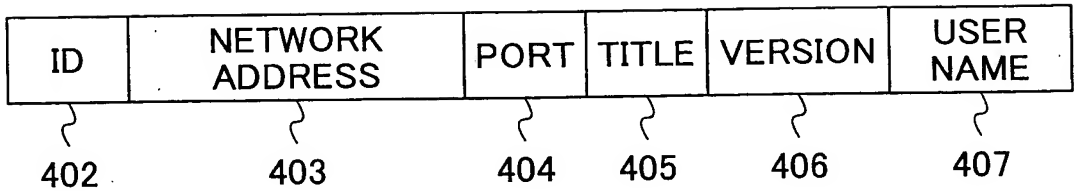


FIG.13

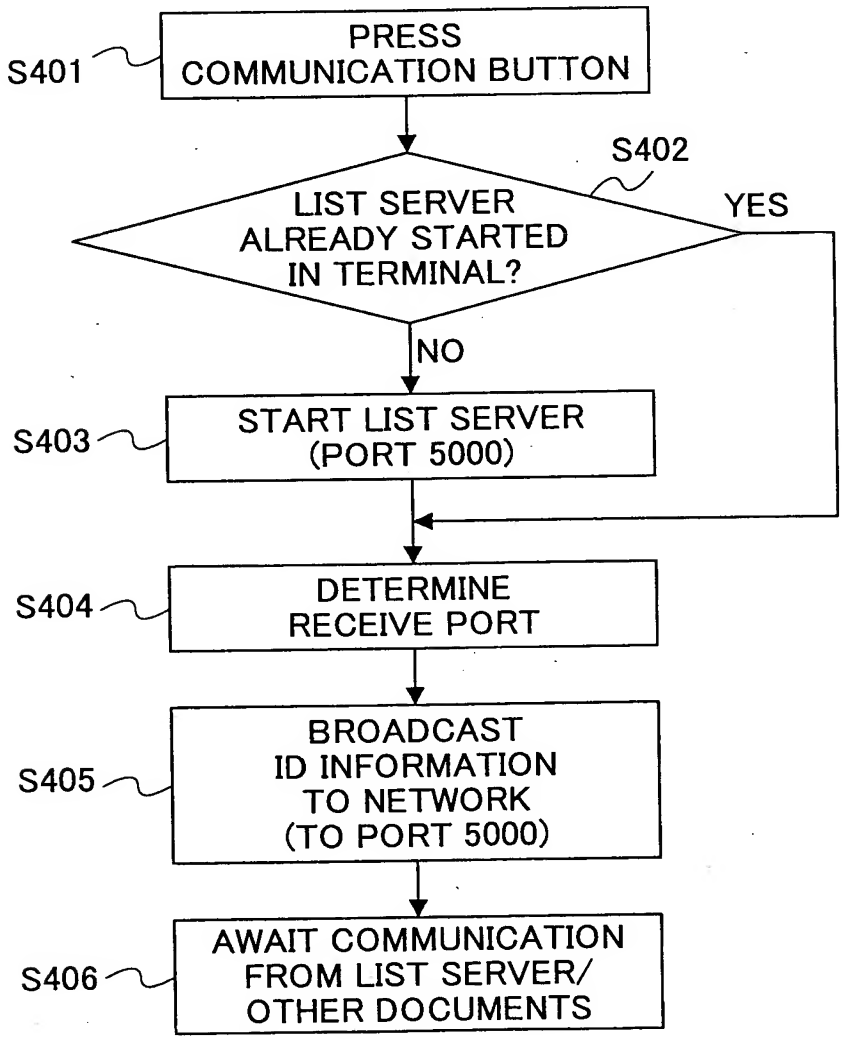


FIG.14

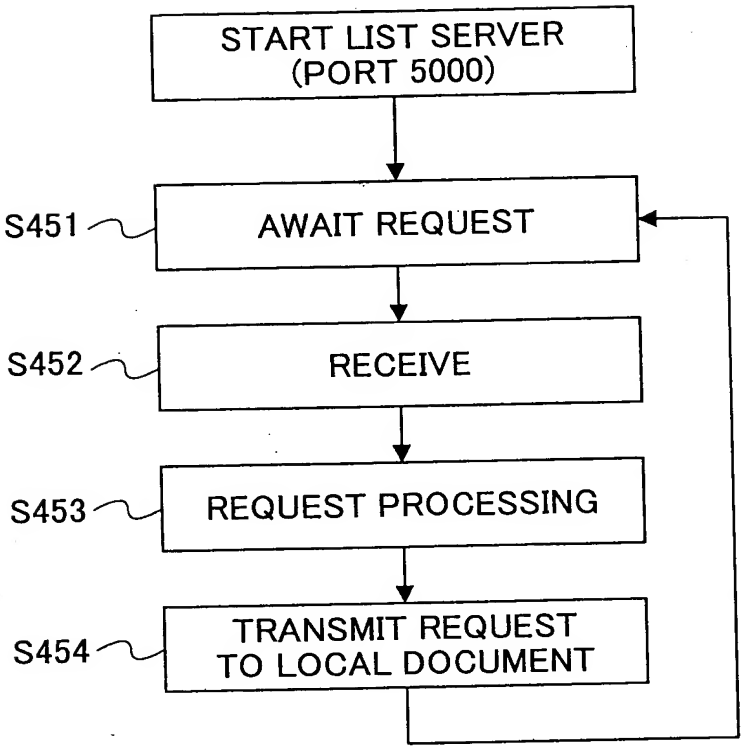

START LIST SERVER (PORT 5000)
S451
AWAIT REQUEST
S452
RECEIVE
S453
REQUEST PROCESSING
S454
TRANSMIT REQUEST TO LOCAL DOCUMENT

FIG.15

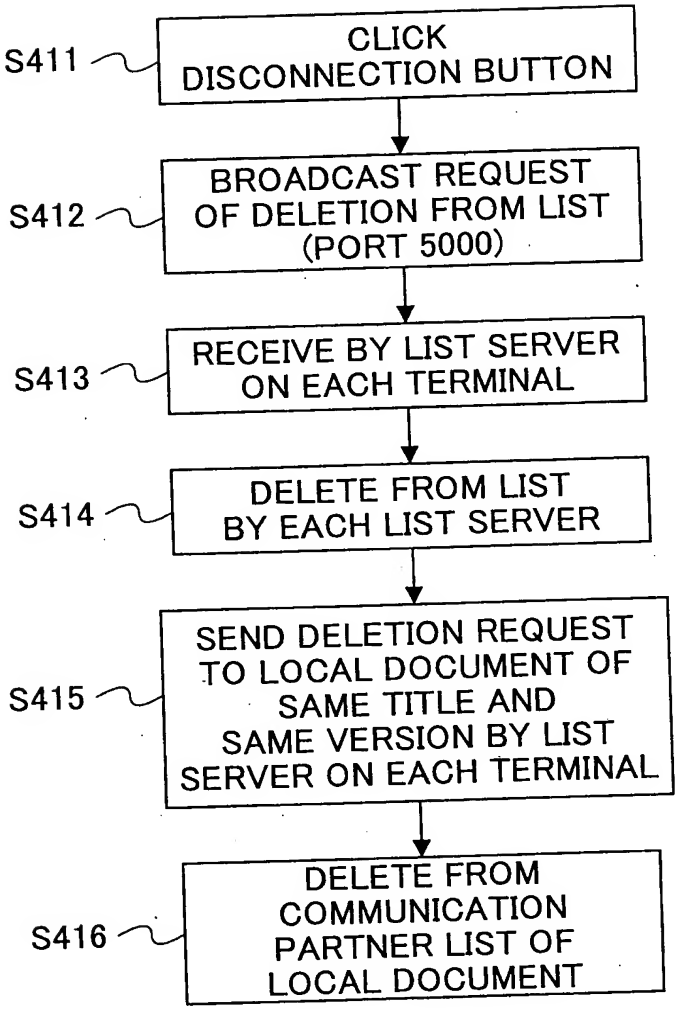

S411
CLICK DISCONNECTION BUTTON
S412
BROADCAST REQUEST OF DELETION FROM LIST (PORT 5000)
S413
RECEIVE BY LIST SERVER ON EACH TERMINAL
S414
DELETE FROM LIST BY EACH LIST SERVER
S415
SEND DELETION REQUEST TO LOCAL DOCUMENT OF SAME TITLE AND SAME VERSION BY LIST SERVER ON EACH TERMINAL
S416
DELETE FROM COMMUNICATION PARTNER LIST OF LOCAL DOCUMENT

FIG.16

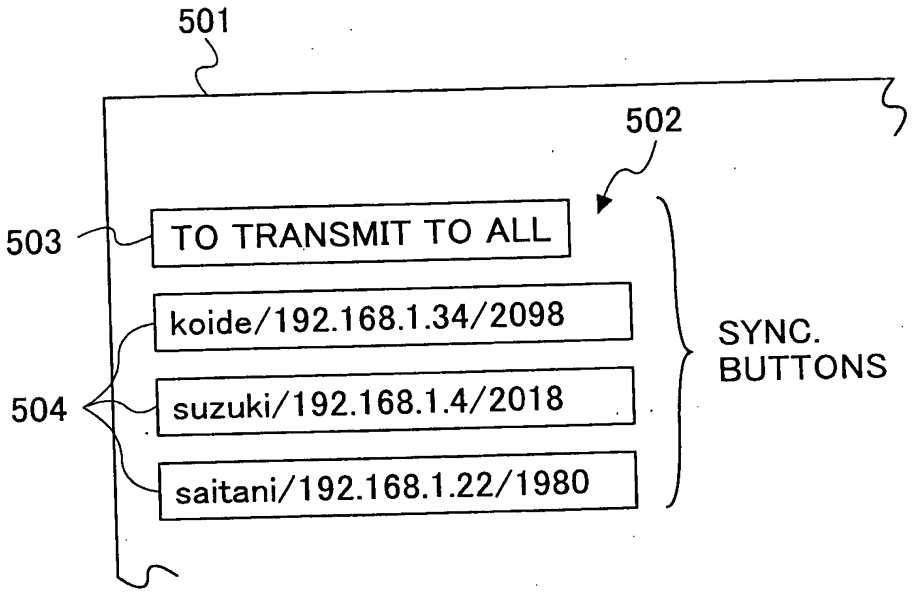

501
502
503
TO TRANSMIT TO ALL
koide/192.168.1.34/2098
504
suzuki/192.168.1.4/2018
saitani/192.168.1.22/1980
SYNC.
BUTTONS

FIG.17

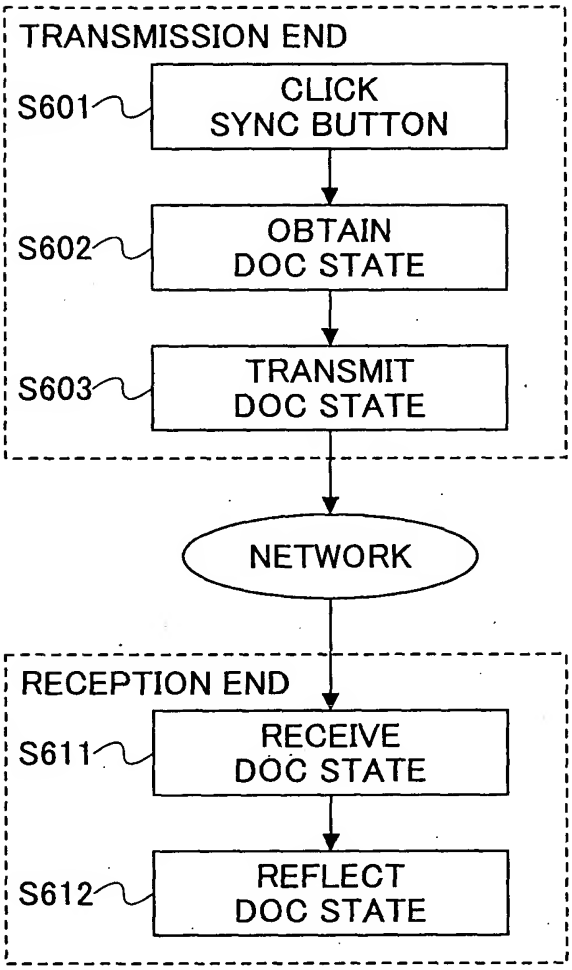

TRANSMISSION END
S601
CLICK SYNC BUTTON
S602
OBTAIN DOC STATE
S603
TRANSMIT DOC STATE
NETWORK
RECEPTION END
S611
RECEIVE DOC STATE
S612
REFLECT DOC STATE

FIG.18

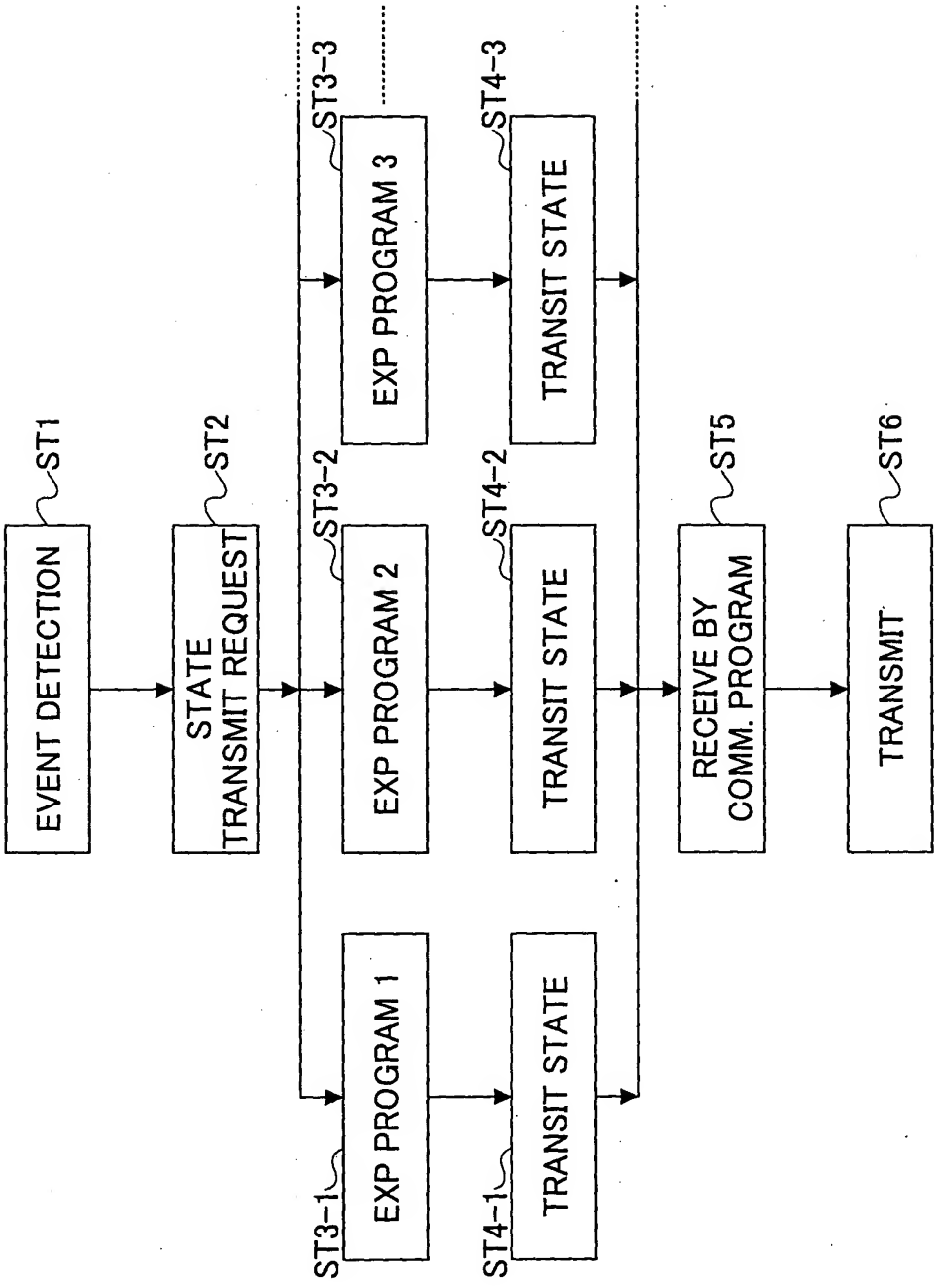

EVENT DETECTION
ST1
STATE TRANSMIT REQUEST
ST2
ST3-1
EXP PROGRAM 1
ST3-2
EXP PROGRAM 2
ST3-3
EXP PROGRAM 3
ST4-1
TRANSIT STATE
ST4-2
TRANSIT STATE
ST4-3
TRANSIT STATE
RECEIVE BY COMM. PROGRAM
ST5
TRANSMIT
ST6

FIG.19

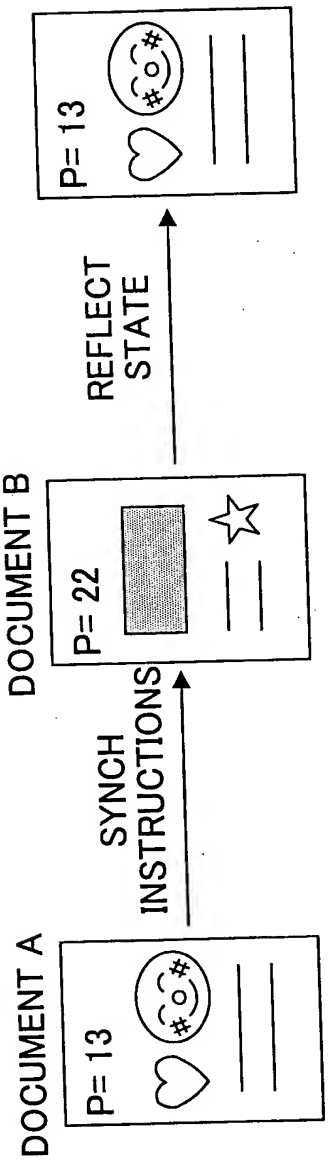

DOCUMENT A
P= 13
SYNCH INSTRUCTIONS
DOCUMENT B
P= 22
REFLECT STATE
P= 13

FIG.20

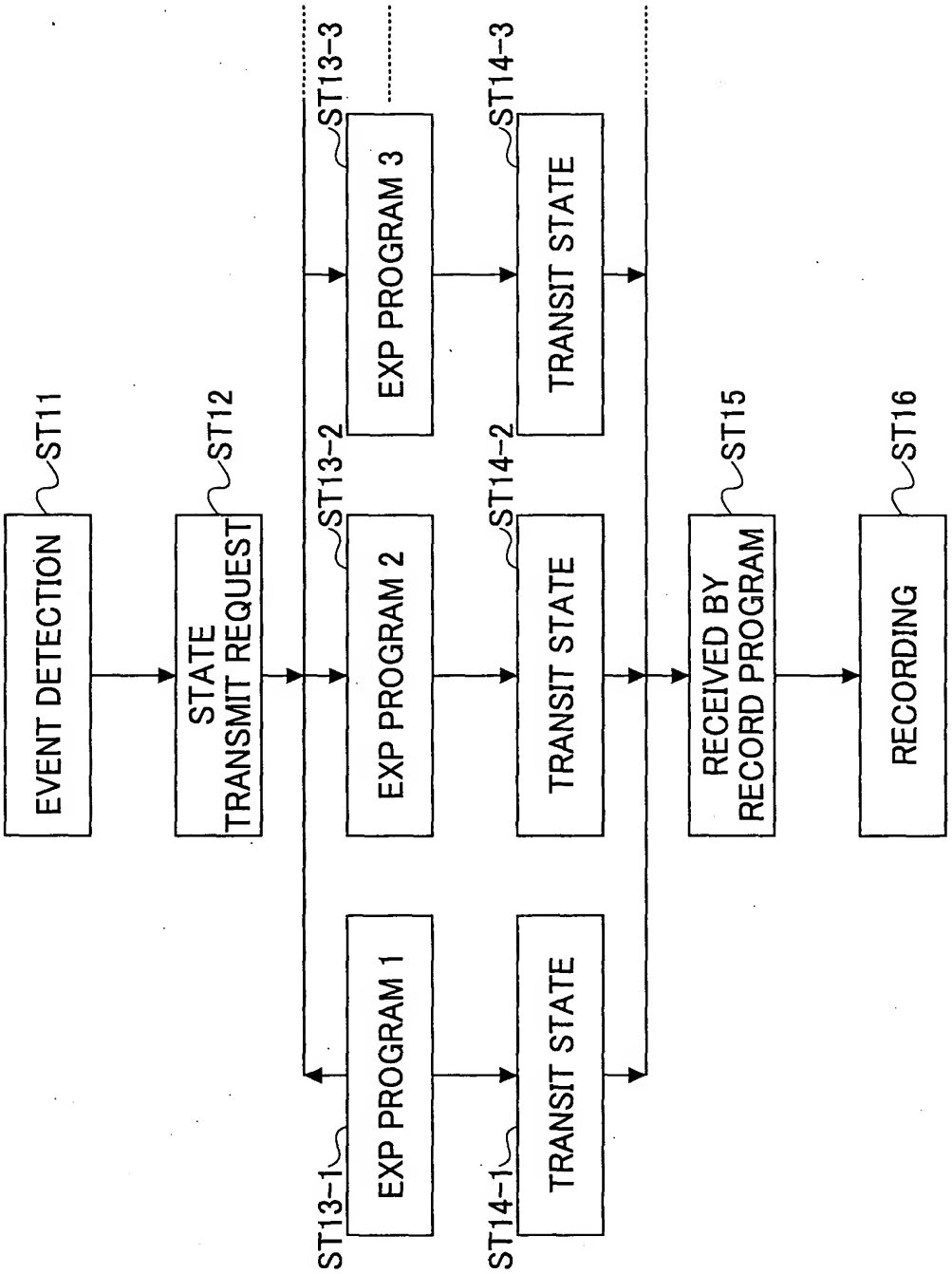

EVENT DETECTION
ST11
STATE TRANSMIT REQUEST
ST12
EXP PROGRAM 1
ST13-1
EXP PROGRAM 2
ST13-2
EXP PROGRAM 3
ST13-3
TRANSIT STATE
ST14-1
TRANSIT STATE
ST14-2
TRANSIT STATE
ST14-3
RECEIVED BY RECORD PROGRAM
ST15
RECORDING
ST16

FIG.21

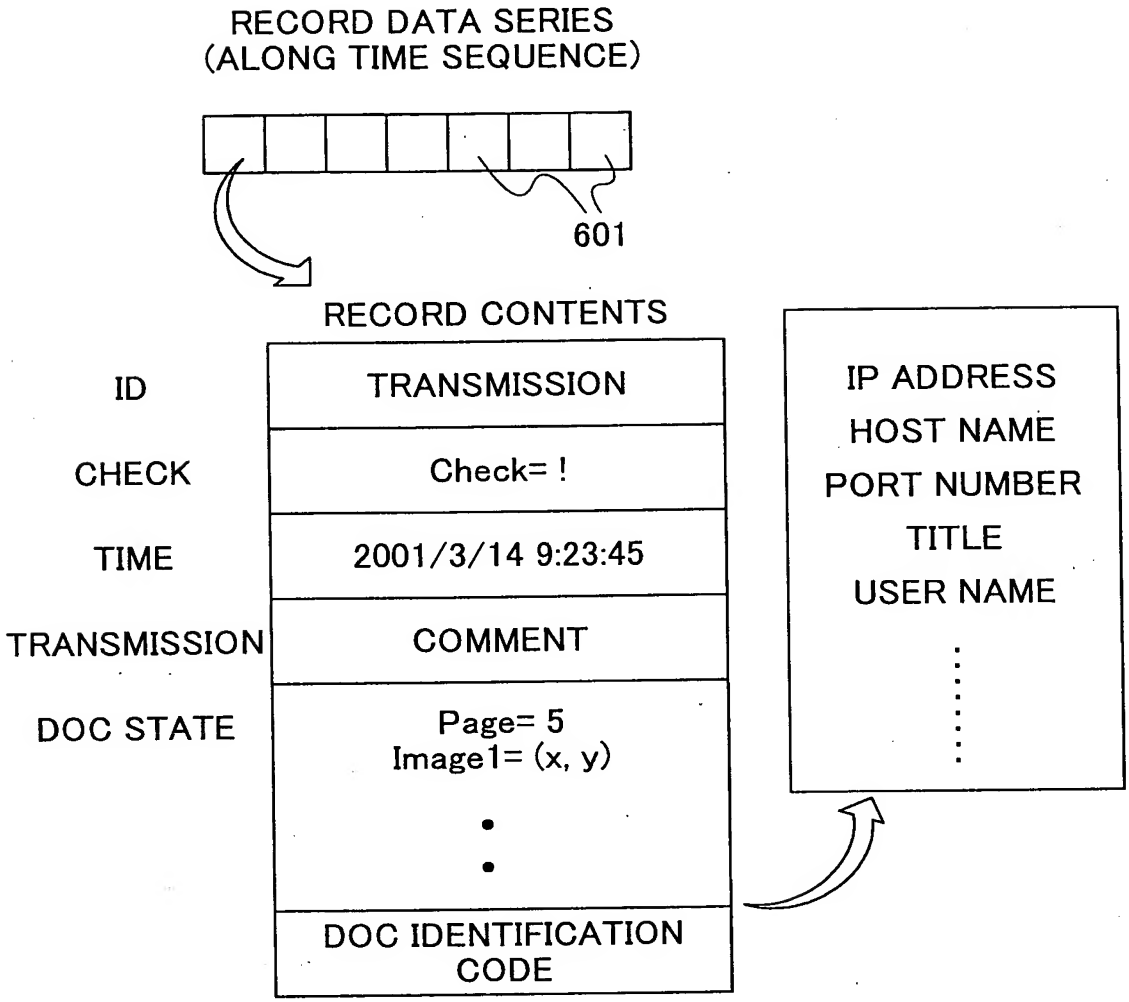

RECORD DATA SERIES
(ALONG TIME SEQUENCE)
601
RECORD CONTENTS
ID
CHECK
TIME
TRANSMISSION
DOC STATE
TRANSMISSION
Check= !
2001/3/14 9:23:45
COMMENT
Page= 5
Image1= (x, y)
DOC IDENTIFICATION CODE
IP ADDRESS
HOST NAME
PORT NUMBER
TITLE
USER NAME

FIG.22

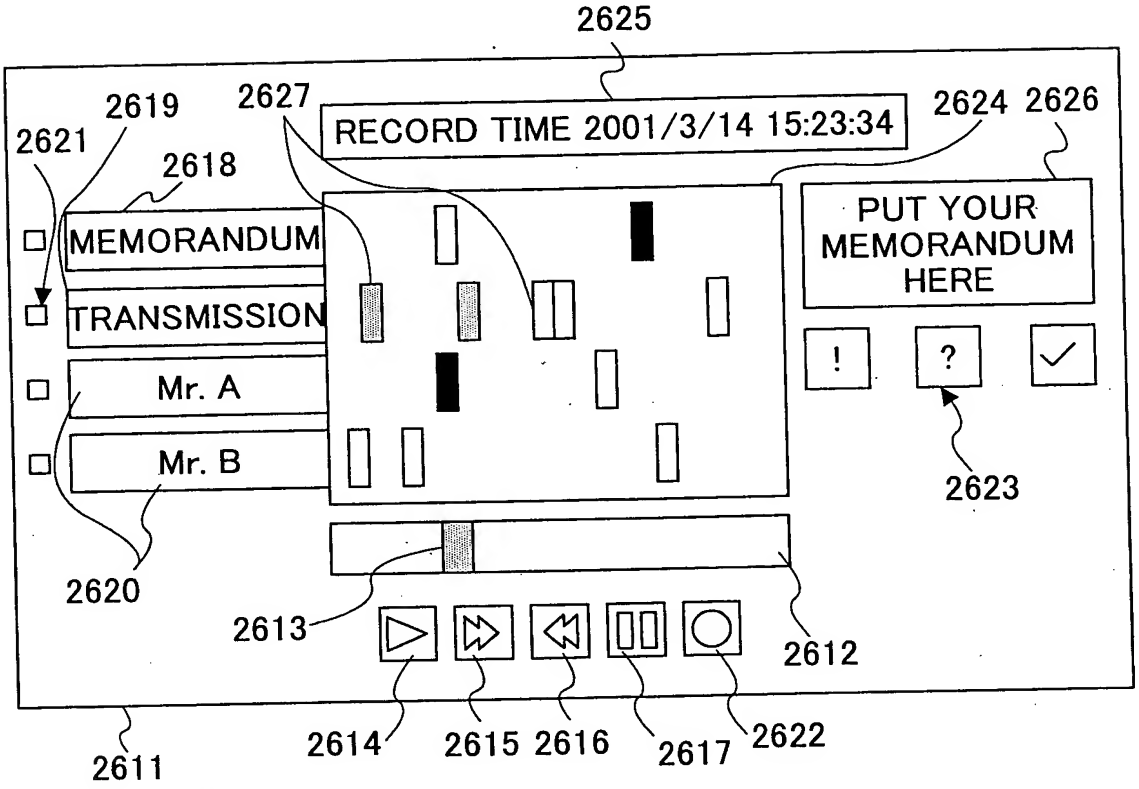

2625
2619
2627
RECORD TIME 2001/3/14 15:23:34
2624
2626
2621
2618
MEMORANDUM
TRANSMISSION
Mr. A
Mr. B
PUT YOUR MEMORANDUM HERE
!
?
2623
2620
2613
2612
2614
2615
2616
2617
2622
2611

FIG.23

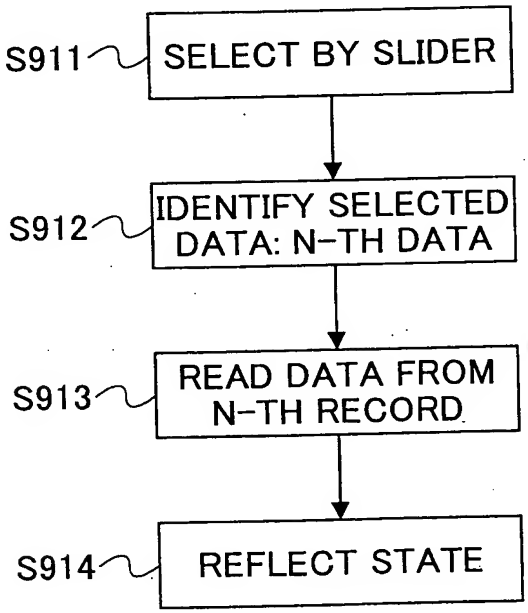

S911
SELECT BY SLIDER
S912
IDENTIFY SELECTED DATA: N-TH DATA
S913
READ DATA FROM N-TH RECORD
S914
REFLECT STATE

FIG.24

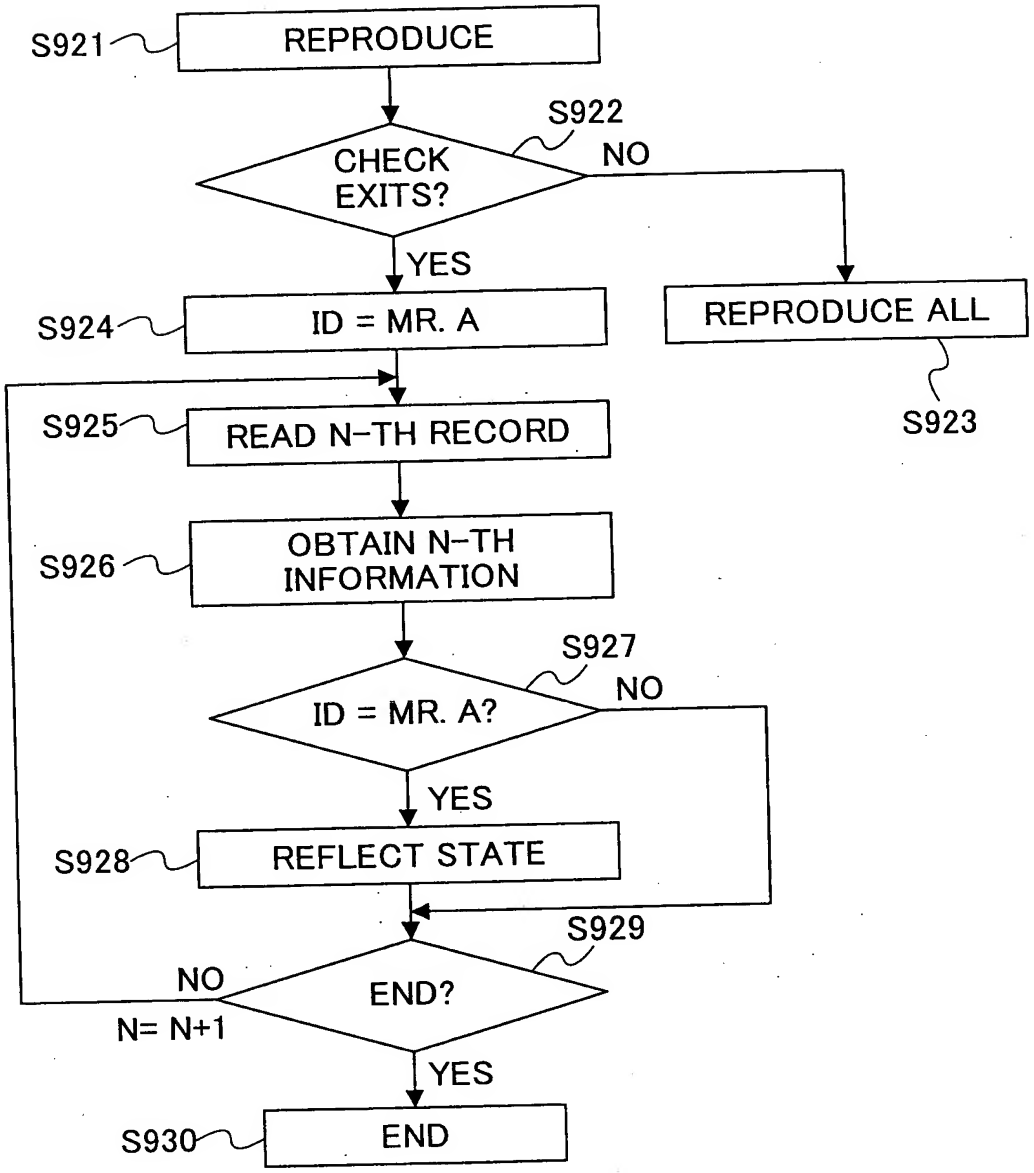

S921
REPRODUCE
S922
CHECK EXITS?
NO
YES
S924
ID = MR. A
REPRODUCE ALL
S923
S925
READ N-TH RECORD
S926
OBTAIN N-TH INFORMATION
S927
ID = MR. A?
NO
YES
S928
REFLECT STATE
S929
END?
NO
N= N+1
YES
S930
END

FIG.25

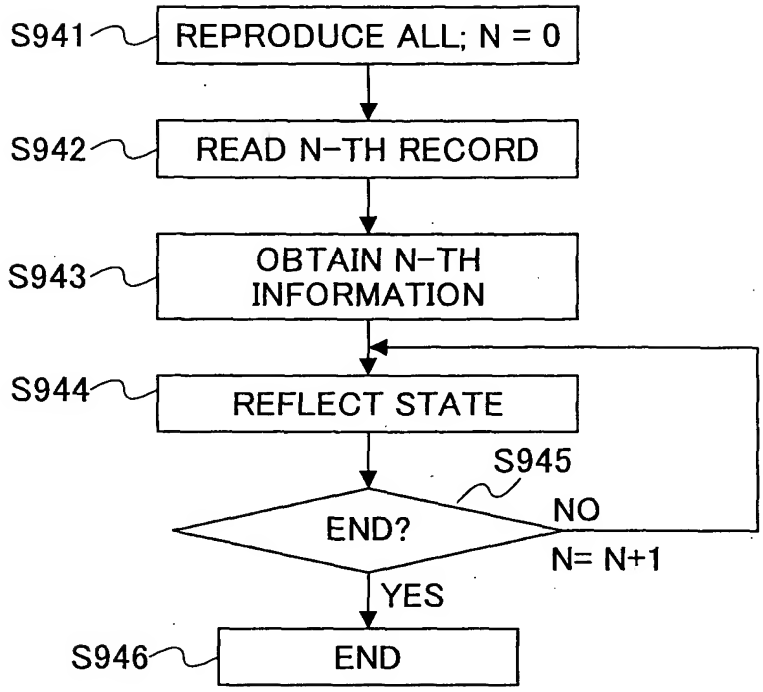

S941
REPRODUCE ALL; N = 0
S942
READ N-TH RECORD
S943
OBTAIN N-TH INFORMATION
S944
REFLECT STATE
S945
END?
NO
N= N+1
YES
S946
END

FIG.26

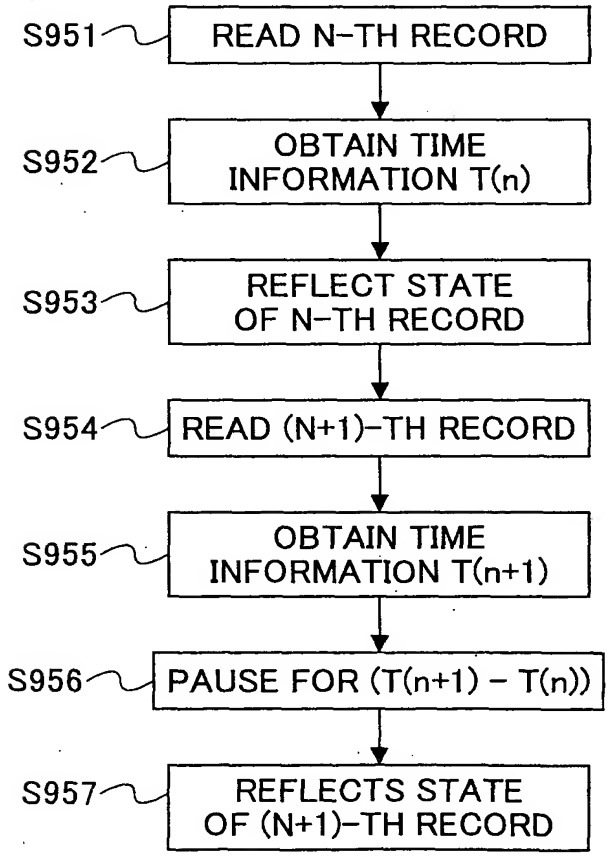

S951
READ N-TH RECORD
S952
OBTAIN TIME INFORMATION T(n)
S953
REFLECT STATE OF N-TH RECORD
S954
READ (N+1)-TH RECORD
S955
OBTAIN TIME INFORMATION T(n+1)
S956
PAUSE FOR (T(n+1) - T(n))
S957
REFLECTS STATE OF (N+1)-TH RECORD

FIG.27A

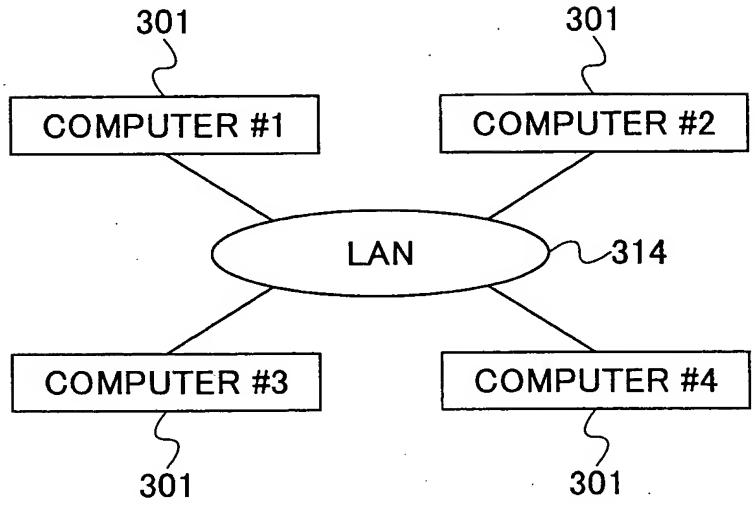


FIG.27B

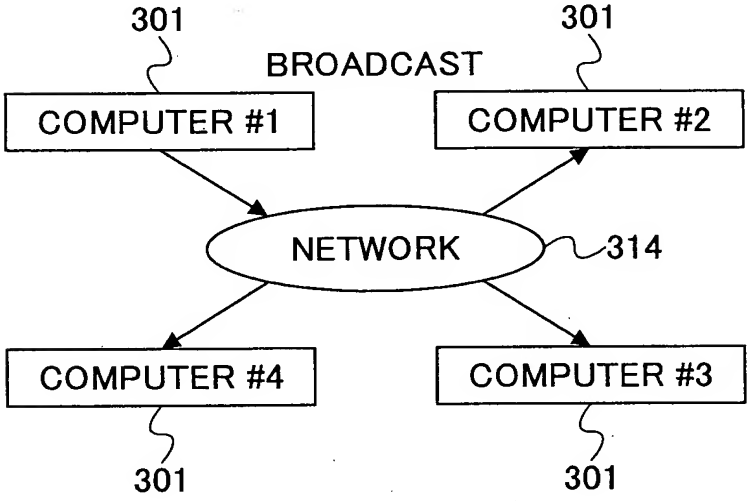


FIG.27C

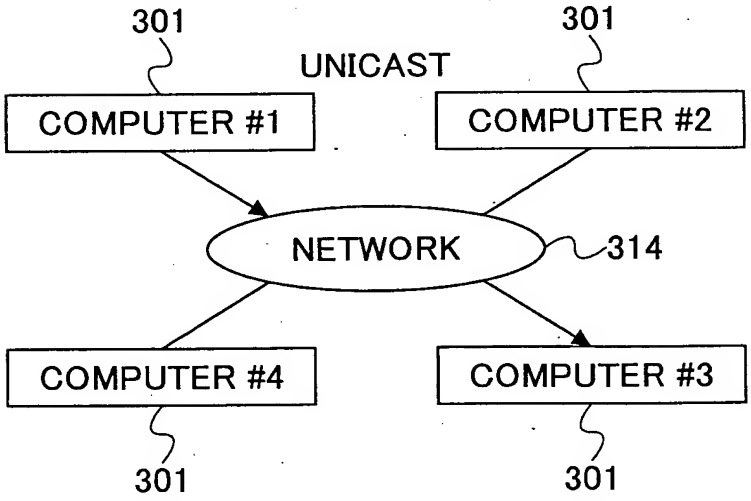


FIG.28

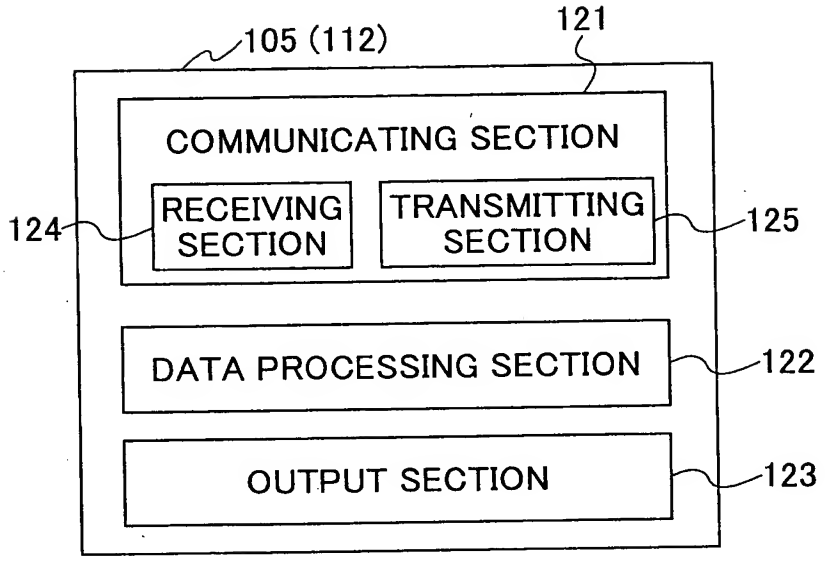

105 (112)
121
COMMUNICATING SECTION
RECEIVING SECTION
TRANSMITTING SECTION
124
125
DATA PROCESSING SECTION
122
OUTPUT SECTION
123

FIG.29

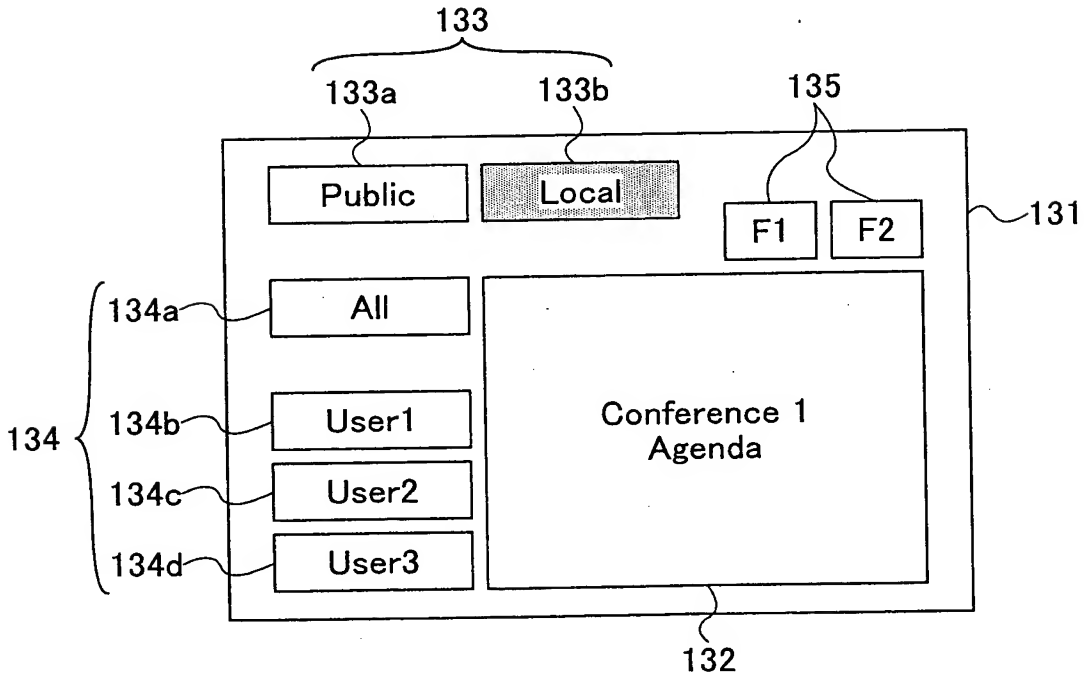

133
133a
133b
135
Public
Local
F1
F2
131
134a
All
134
134b
User1
134c
User2
134d
User3
Conference 1
Agenda
132

FIG.30

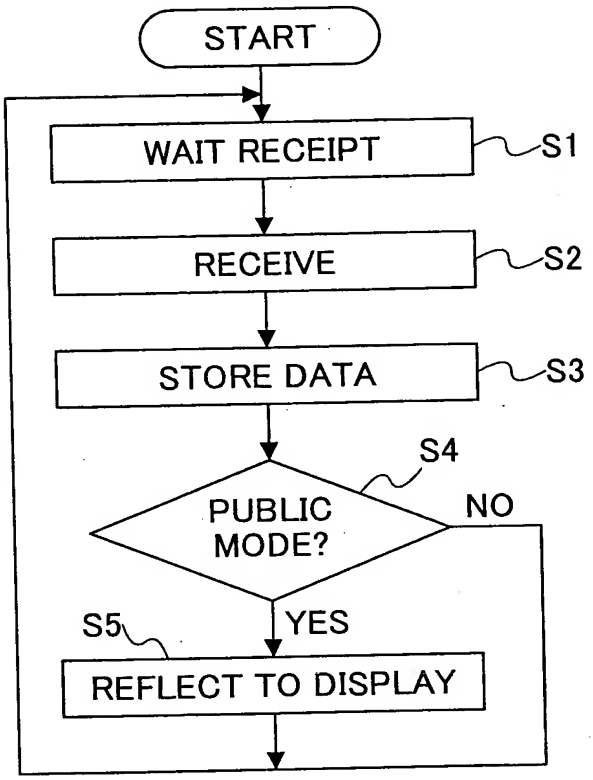

START
WAIT RECEIPT
S1
RECEIVE
S2
STORE DATA
S3
S4
PUBLIC MODE?
NO
YES
S5
REFLECT TO DISPLAY

FIG.31

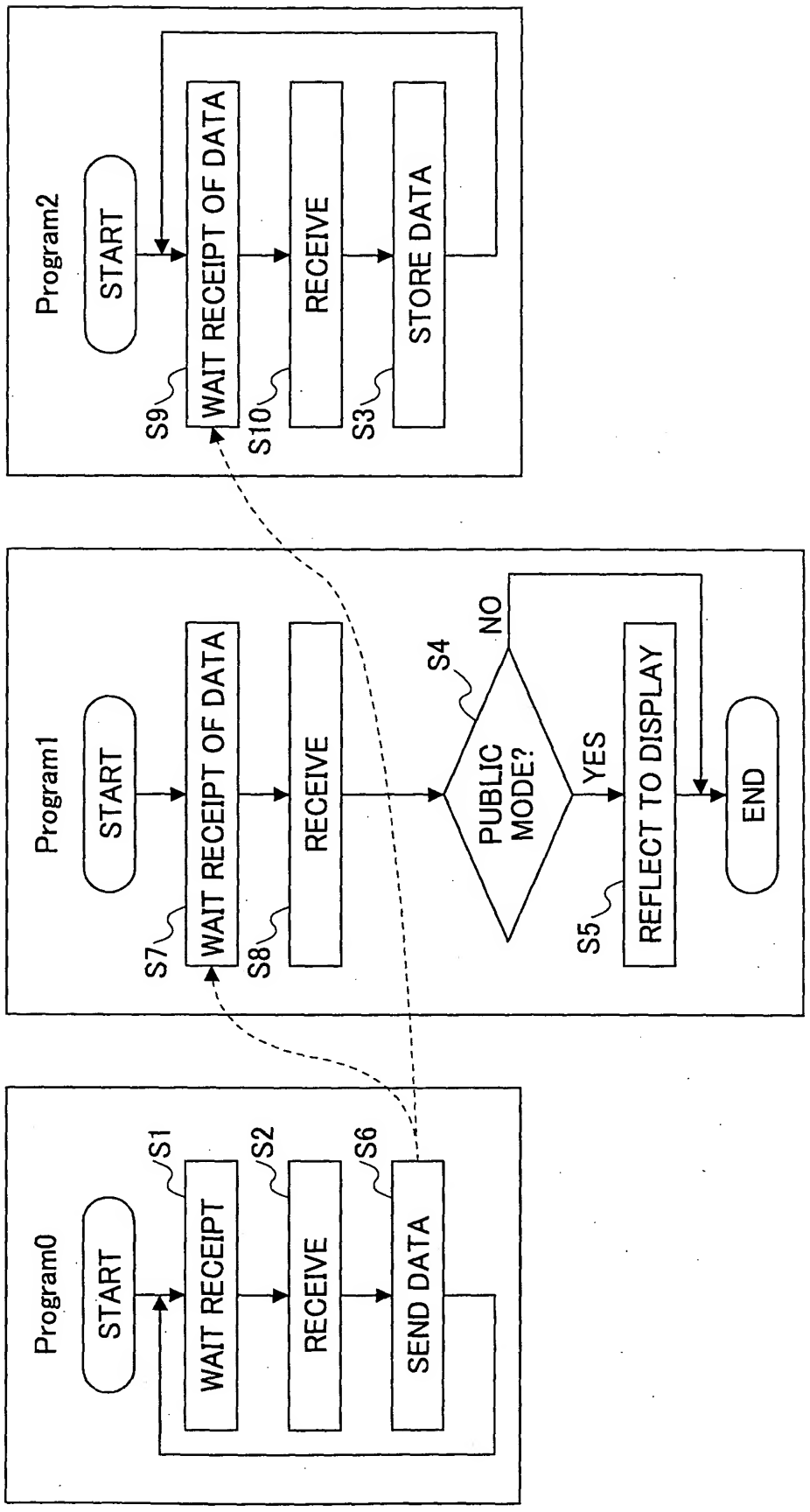

Program0
START
S1
WAIT RECEIPT
S2
RECEIVE
S6
SEND DATA
Program1
START
S7
WAIT RECEIPT OF DATA
S8
RECEIVE
S4
PUBLIC MODE?
NO
YES
S5
REFLECT TO DISPLAY
END
Program2
START
S9
WAIT RECEIPT OF DATA
S10
RECEIVE
S3
STORE DATA

FIG.32

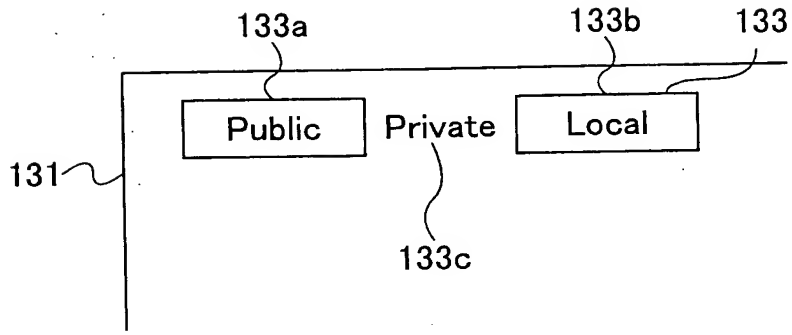


FIG.33

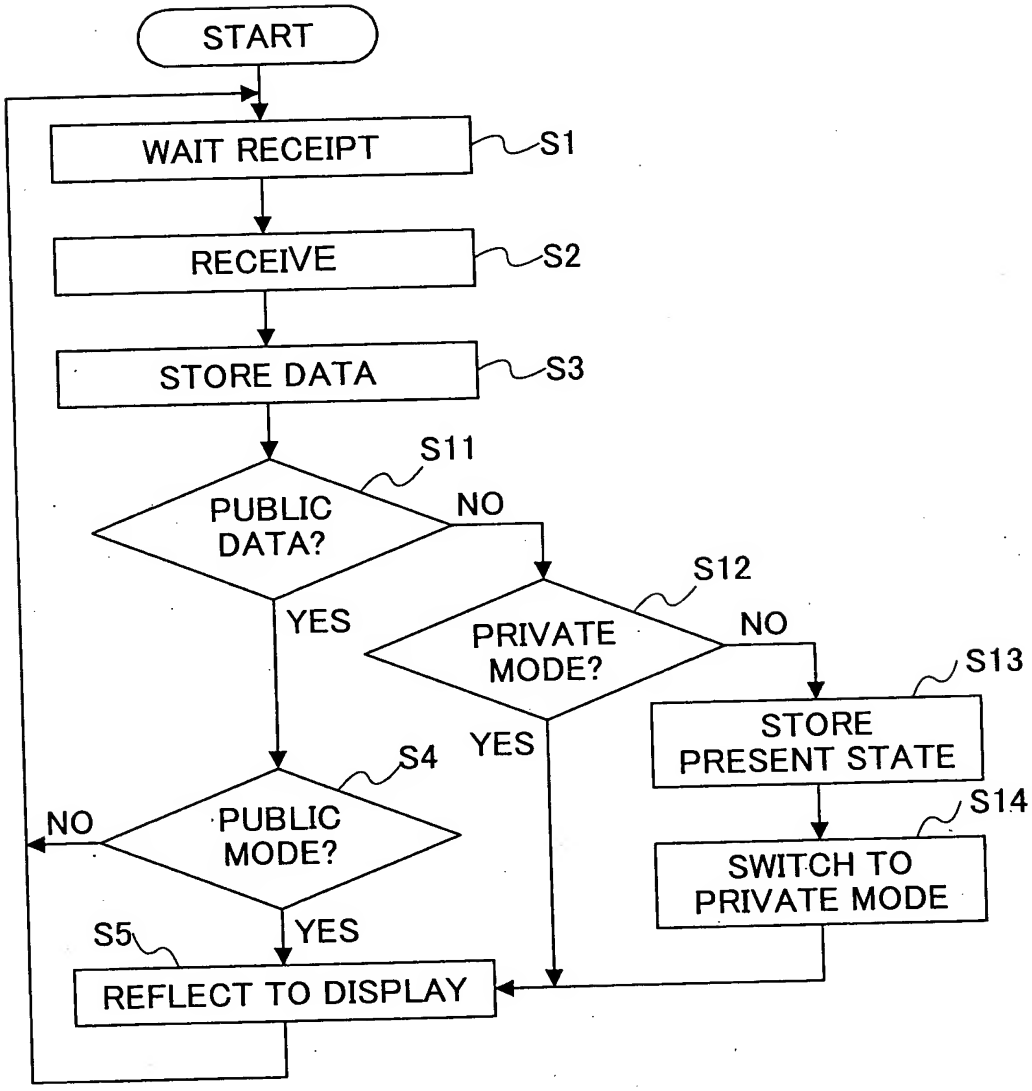

START
WAIT RECEIPT
S1
RECEIVE
S2
STORE DATA
S3
S11
PUBLIC DATA?
NO
YES
S12
PRIVATE MODE?
NO
YES
S13
STORE PRESENT STATE
S14
SWITCH TO PRIVATE MODE
S4
PUBLIC MODE?
NO
YES
S5
REFLECT TO DISPLAY

FIG.34

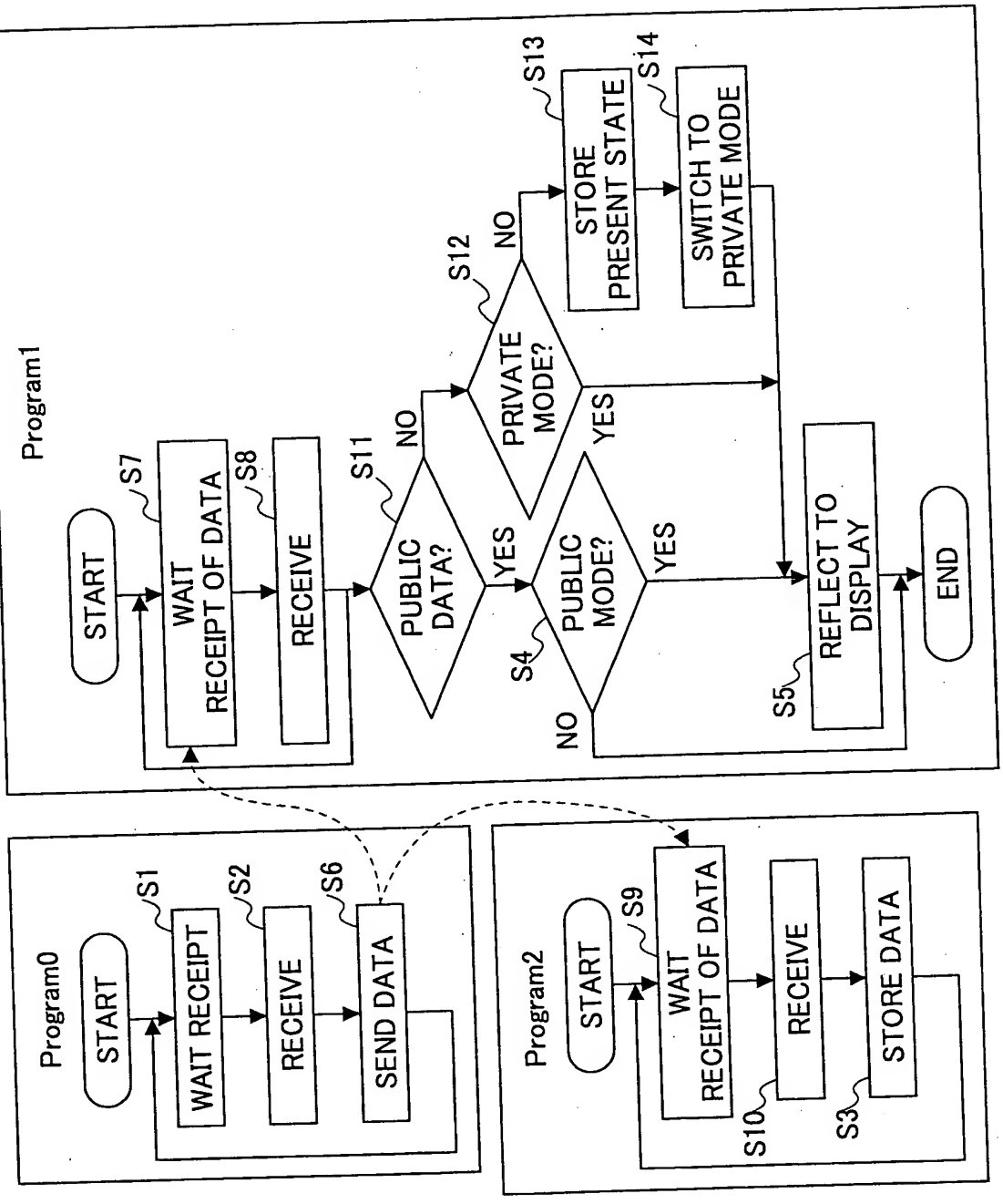

Program1
START
S7
WAIT RECEIPT OF DATA
S8
RECEIVE
S11
PUBLIC DATA?
NO
YES
S12
PRIVATE MODE?
NO
YES
S13
STORE PRESENT STATE
S14
SWITCH TO PRIVATE MODE
S4
PUBLIC MODE?
NO
YES
S5
REFLECT TO DISPLAY
END
Program0
START
S1
WAIT RECEIPT
S2
RECEIVE
S6
SEND DATA
Program2
START
S9
WAIT RECEIPT OF DATA
S10
RECEIVE
S3
STORE DATA

FIG.35

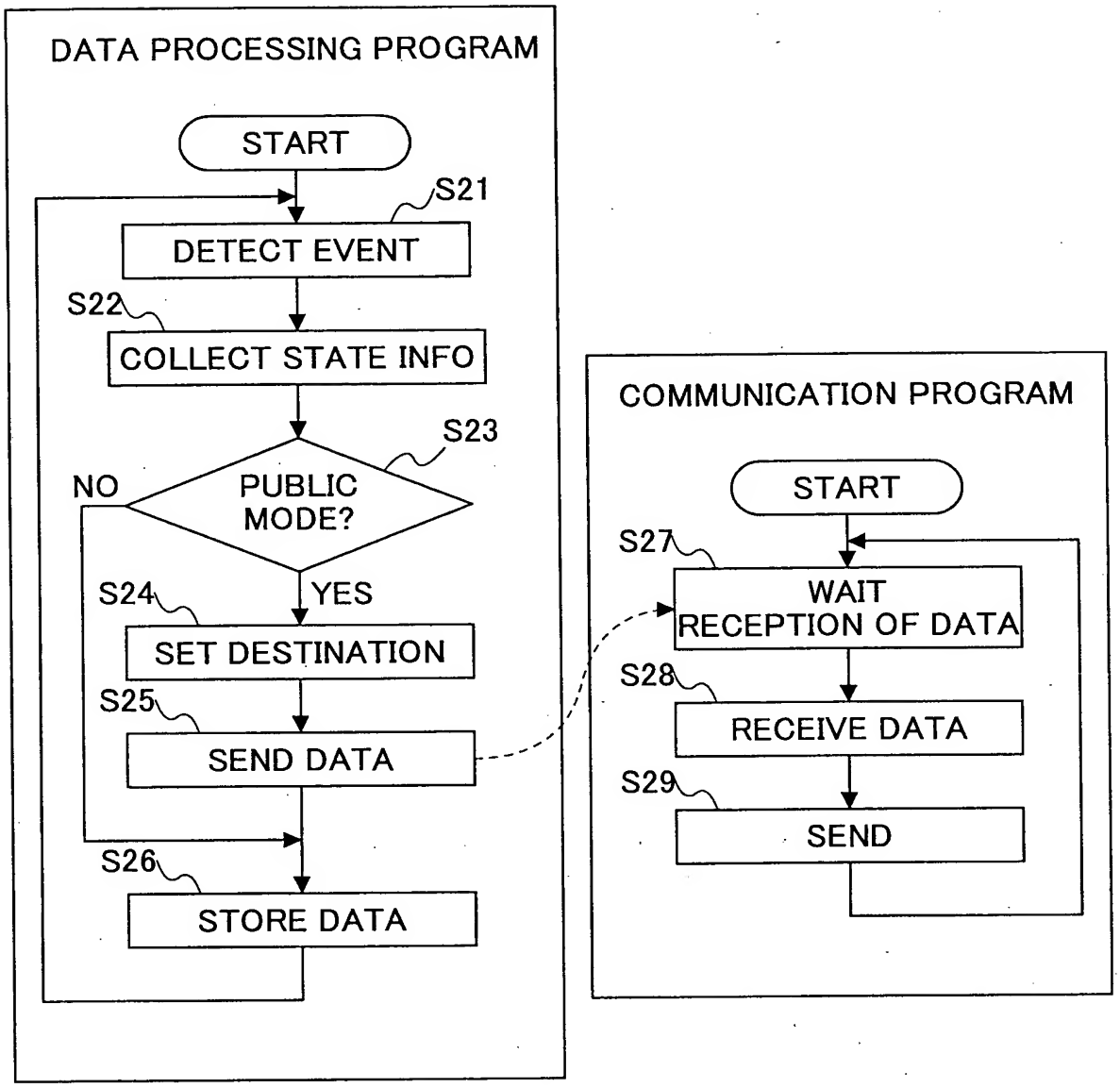

DATA PROCESSING PROGRAM
START
S21
DETECT EVENT
S22
COLLECT STATE INFO
S23
NO
PUBLIC MODE?
YES
S24
SET DESTINATION
S25
SEND DATA
S26
STORE DATA
COMMUNICATION PROGRAM
START
S27
WAIT RECEPTION OF DATA
S28
RECEIVE DATA
S29
SEND

FIG.36

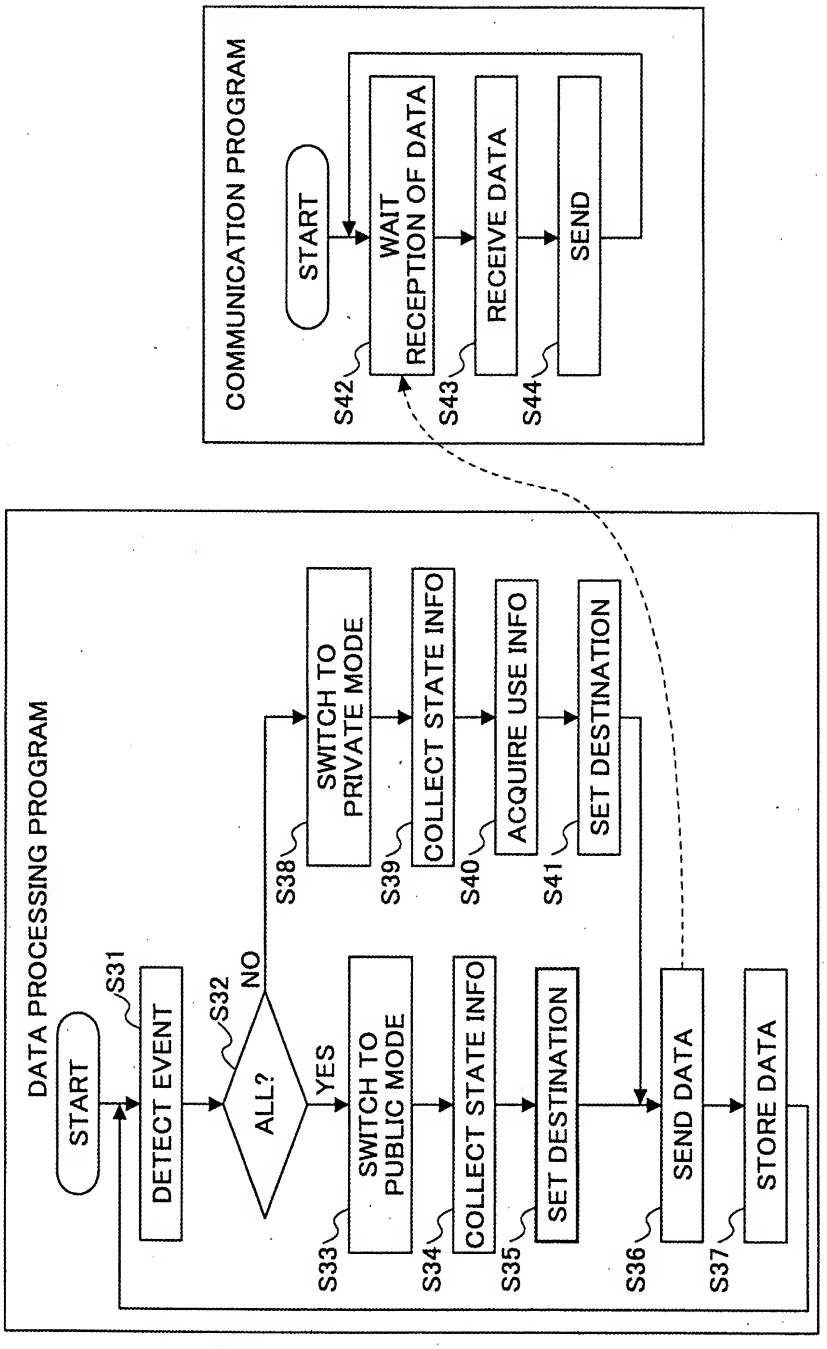

DATA PROCESSING PROGRAM
START
S31
DETECT EVENT
S32
ALL?
NO
YES
S38
SWITCH TO PRIVATE MODE
S39
COLLECT STATE INFO
S40
ACQUIRE USE INFO
S41
SET DESTINATION
S33
SWITCH TO PUBLIC MODE
S34
COLLECT STATE INFO
S35
SET DESTINATION
S36
SEND DATA
S37
STORE DATA
COMMUNICATION PROGRAM
START
S42
WAIT RECEPTION OF DATA
S43
RECEIVE DATA
S44
SEND

FIG.37

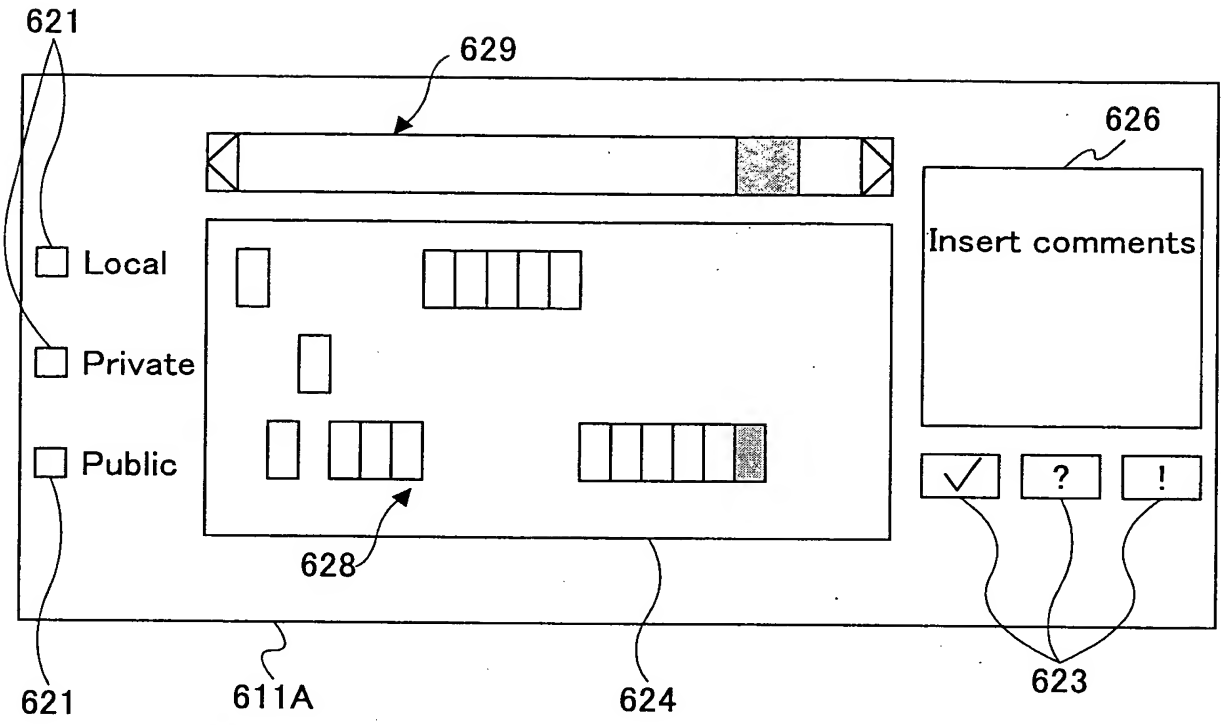

621
629
626
Insert comments
Local
Private
Public
?
!
628
621
611A
624
623

FIG.38

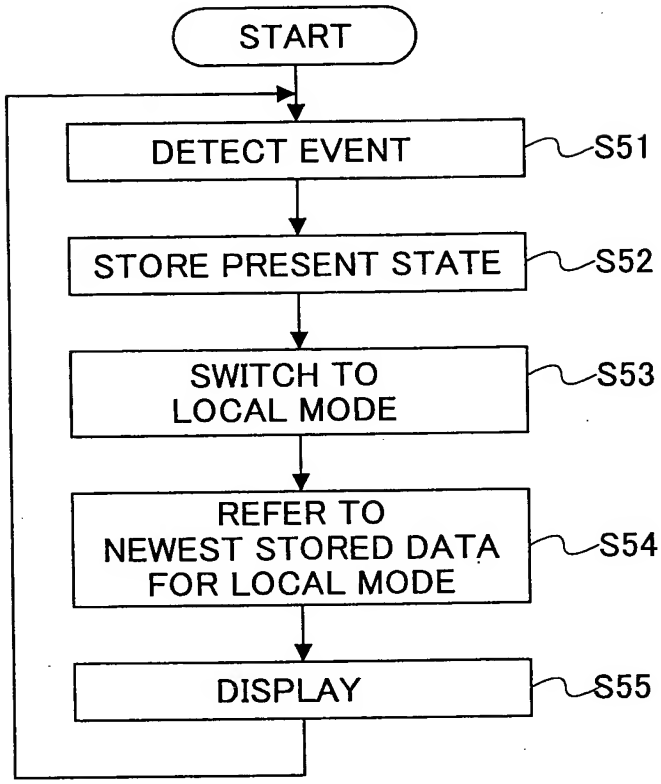

START
DETECT EVENT
S51
STORE PRESENT STATE
S52
SWITCH TO LOCAL MODE
S53
REFER TO NEWEST STORED DATA FOR LOCAL MODE
S54
DISPLAY
S55

FIG.39

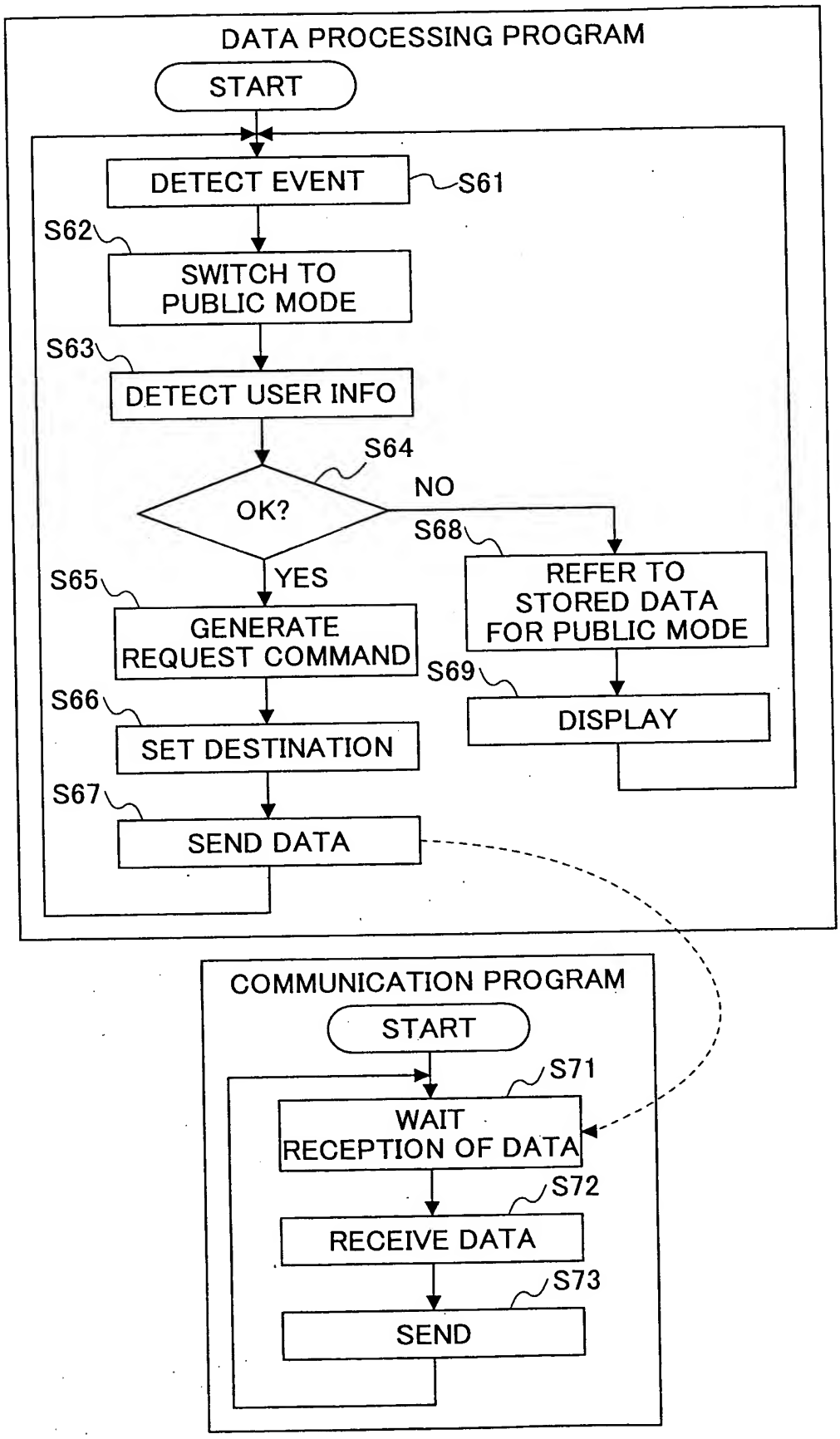

DATA PROCESSING PROGRAM
START
DETECT EVENT
S61
S62
SWITCH TO PUBLIC MODE
S63
DETECT USER INFO
S64
OK?
NO
S68
REFER TO STORED DATA FOR PUBLIC MODE
S69
DISPLAY
YES
S65
GENERATE REQUEST COMMAND
S66
SET DESTINATION
S67
SEND DATA
COMMUNICATION PROGRAM
START
S71
WAIT RECEPTION OF DATA
S72
RECEIVE DATA
S73
SEND

FIG.40

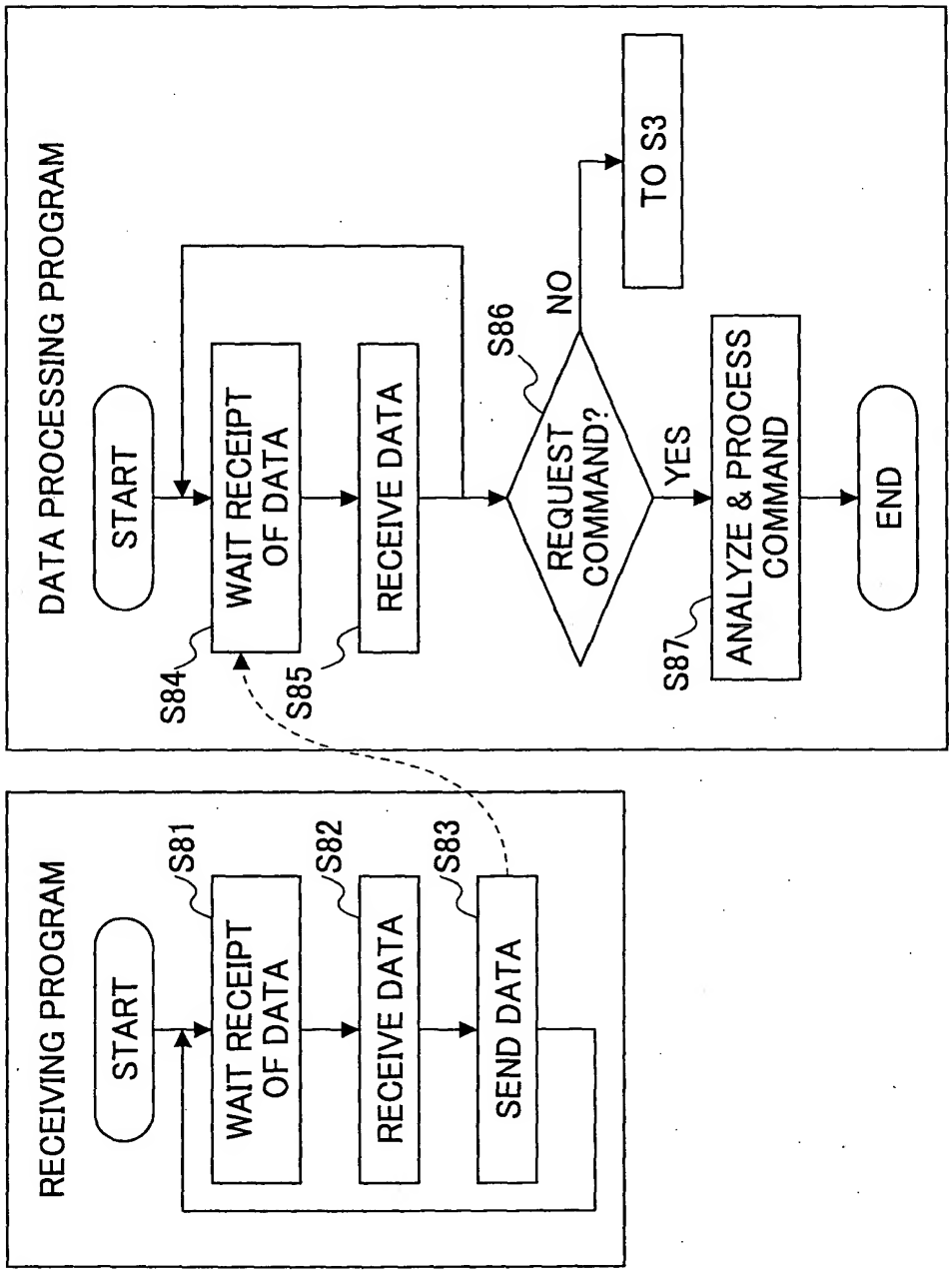

DATA PROCESSING PROGRAM
START
WAIT RECEIPT OF DATA
RECEIVE DATA
REQUEST COMMAND?
NO
TO S3
YES
ANALYZE & PROCESS COMMAND
END
S84
S85
S86
S87
RECEIVING PROGRAM
START
WAIT RECEIPT OF DATA
RECEIVE DATA
SEND DATA
S81
S82
S83

FIG.41

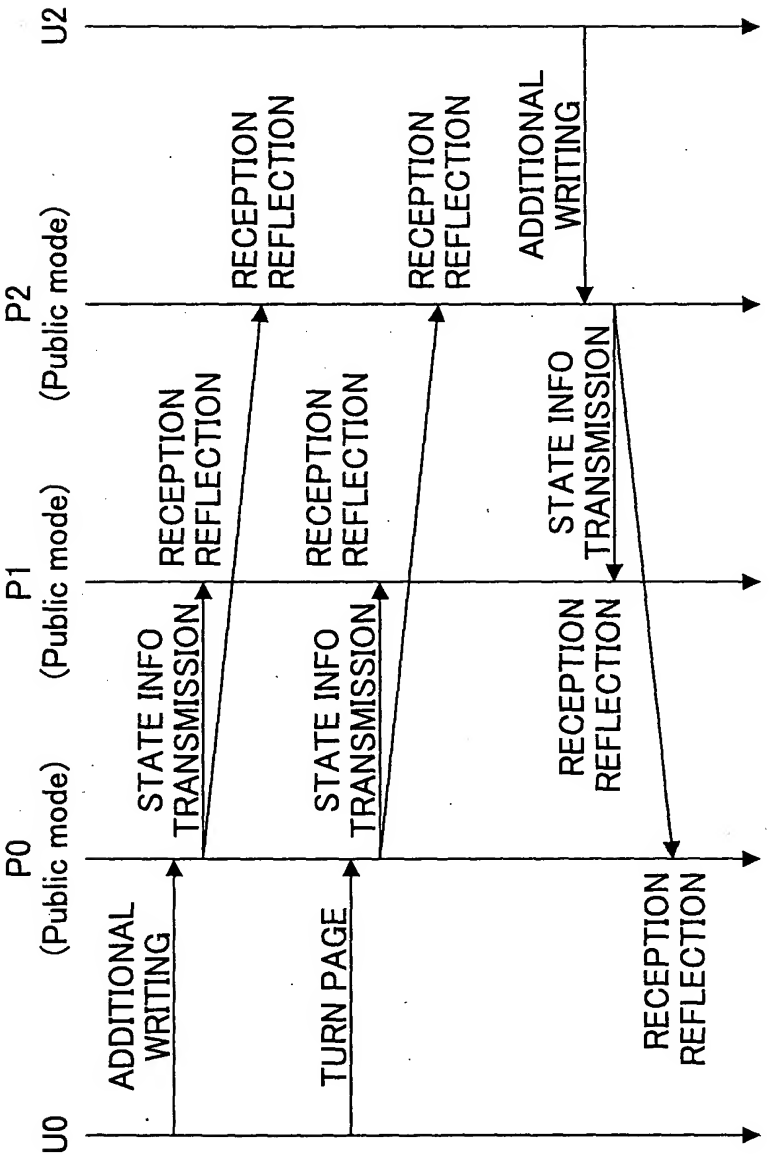

U0
U2
P0
(Public mode)
P1
(Public mode)
P2
(Public mode)
ADDITIONAL WRITING
STATE INFO TRANSMISSION
RECEPTION REFLECTION
TURN PAGE
STATE INFO TRANSMISSION
RECEPTION REFLECTION
RECEPTION REFLECTION
STATE INFO TRANSMISSION
RECEPTION REFLECTION
RECEPTION REFLECTION
ADDITIONAL WRITING
RECEPTION REFLECTION

FIG.42

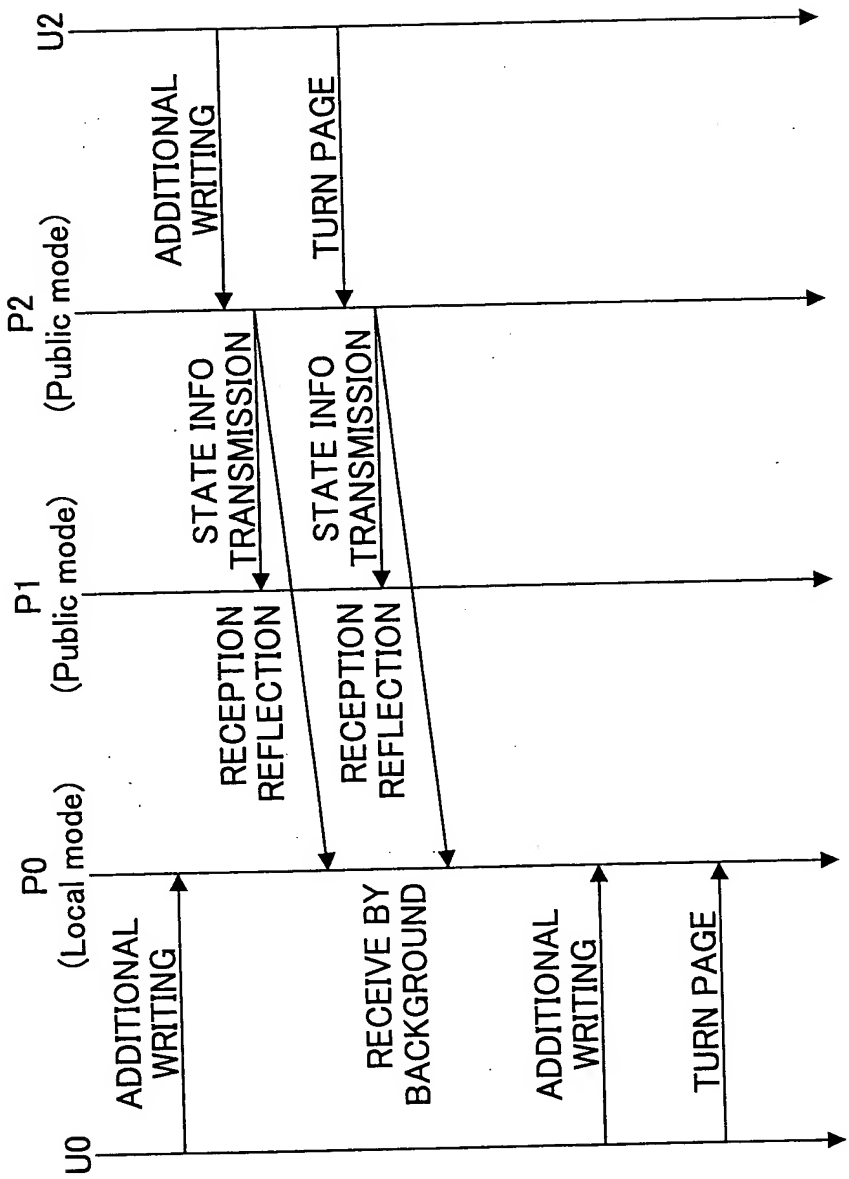
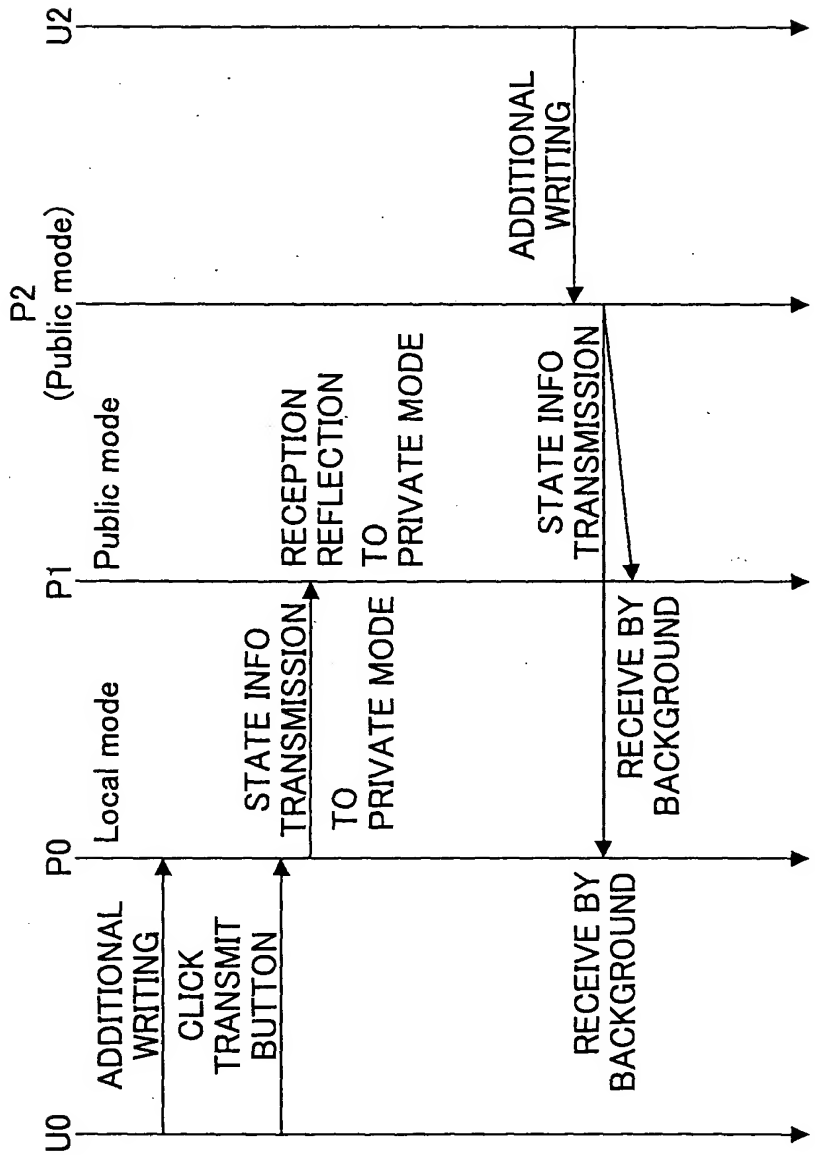

U2
P2
(Public mode)
P1
(Public mode)
P0
(Local mode)
U0
ADDITIONAL WRITING
TURN PAGE
STATE INFO TRANSMISSION
STATE INFO TRANSMISSION
RECEPTION REFLECTION
RECEPTION REFLECTION
ADDITIONAL WRITING
RECEIVE BY BACKGROUND
ADDITIONAL WRITING
TURN PAGE

FIG.43


U0
U2
P0
Local mode
P1
Public mode
P2
(Public mode)
ADDITIONAL WRITING
CLICK TRANSMIT BUTTON
STATE INFO TRANSMISSION TO PRIVATE MODE
RECEPTION REFLECTION TO PRIVATE MODE
ADDITIONAL WRITING
STATE INFO TRANSMISSION
RECEIVE BY BACKGROUND
RECEIVE BY BACKGROUND